

User Manual
L2456DG
DIGITAL Series

This standard user's manual is designed to show you how to connect and tune in your Toshiba TV and to operate the most commonly used functions.

During the life of your TV firmware updates will be made available to ensure that your TV maintains optimum performance:

If your TV is connected to the internet, firmware will be automatically made available.

If your TV is not connected to the internet, you can download the latest version of firmware from

www.toshiba-om.net/firmware.php

If you want to view advanced functions for your TV you can do so by visiting

www.toshiba-om.net

Toshiba estimates that the initiative of making the advanced functions available online rather than in this book will save over 100,000 trees per year (6.5 Million kg CO₂).

If you wish to view the advanced functions but do not have access to a computer or the internet then please contact your local owner's manual Helpline number.
Contact details are shown at the back of this book.

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Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured.

Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products and some points may not apply to the goods you have just purchased.

Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

Mains Supply

The mains supply required for this equipment is 220-240V AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead.

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in this plug is approved by ASTA or BSI to BS1362.

It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

IF IN DOUBT, PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels on equipment.

WARNING: To prevent injury, this apparatus must be securely attached to a solid base in accordance with the installation instructions.

- DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.
- THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

Do Not

DO NOT obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DO NOT allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DO NOT place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.



WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.

DO NOT use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturers' approved stand, bracket or legs with the fixings provided according to the instructions.

DO NOT leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, make sure your family know how to do this.

Special arrangements may need to be made for people with disabilities.

DO NOT continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

WARNING – excessive sound pressure from earphones or headphones can cause hearing loss.

ABOVE ALL – NEVER let anyone, especially children, push or hit the screen, push anything into holes, slots or any other openings in the case.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

THE MAINS PLUG IS USED AS THE DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

Installation and Important Information

Where to install

Locate the television away from direct sunlight and strong lights, soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place the TV set on a stable, level surface that can support the weight of the TV.

The LCD display panels are manufactured using an extremely high level of precision technology, however sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen, and that small items cannot be inserted into slots or openings in the case.



Avoid using chemicals (such as air refreshers, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combination effects of chemical agents and mechanical stress (such as weight of TV). Failure to follow these instructions could result in serious injury and/or permanent damaged to TV and TV pedestal.

Cleaning the screen and cabinet...

Turn off the power, and clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

When using a Wall Bracket

Please use a wall bracket appropriate for the size and weight of the LCD TV.

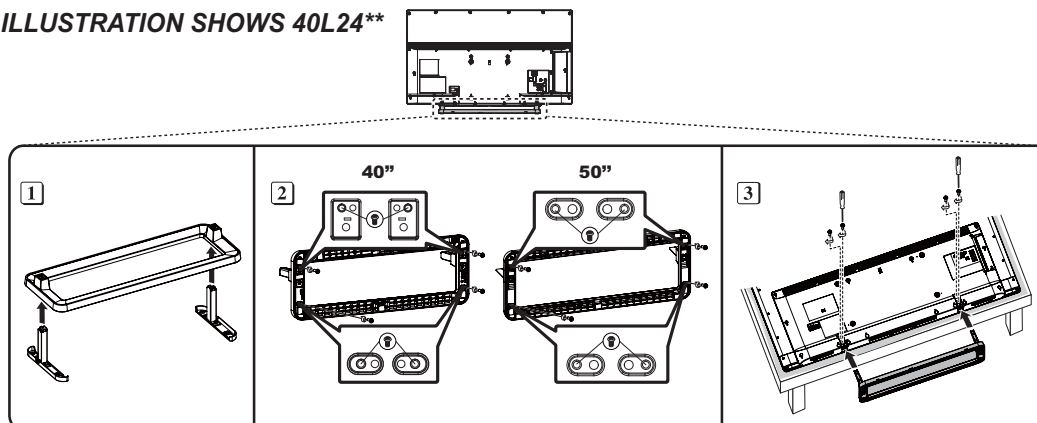
- Two people are required for installation.
 - To install a wall-mount from another manufacturer.
1. Unplug and remove any cables and/or other connections from the rear of the TV.
 2. Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
 3. Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
 4. Always use the screws supplied or recommended by the wall mount manufacturer.

Removing the Pedestal Stand:

1. Carefully lay the front of the unit face down on a flat, cushioned surface with the stand hanging over the edge.
2. Remove the screws.
3. After the screws are removed, hold the pedestal stand in place, then remove it from the TV by sliding away from the bottom of the TV.

NOTE: Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

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Please take note



EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i. fire;
- ii. earthquake;
- iii. accidental damage;
- iv. intentional misuse of the product;
- v. use of the product in improper conditions;
- vi. loss and/or damage caused to the product while in the possession of a third party;
- vii. any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii. any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

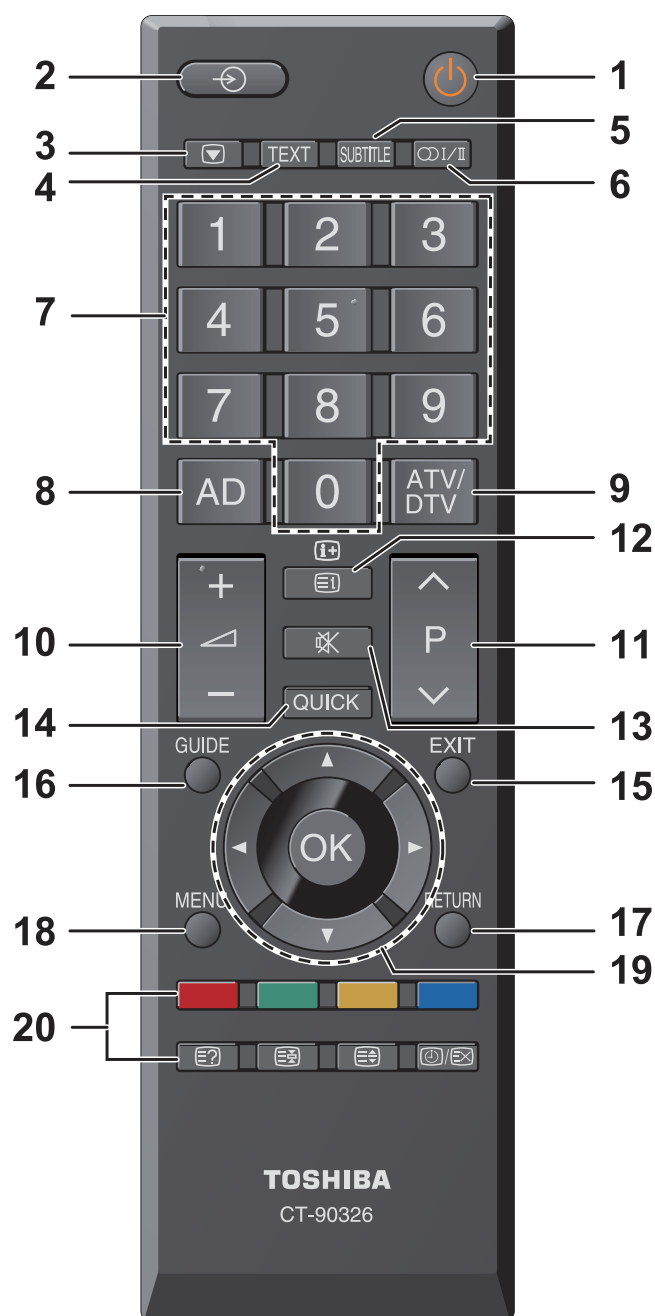
Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

- The digital reception function of this television is only effective in the countries listed in the Country section of the SETUP menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.
- If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television-screen for any length of time they could become conspicuous, it is always advisable to reduce both the brightness and contrast settings.
- Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines, this is not a defect of the LCD TV and is not covered under the manufacturers warranty. Regular use of other size modes (e.g.: Super Live) will prevent permanent retention.
- **NOTE:** Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.

SYMBOL	SYMBOL DEFINITION
	INSTRUCTIONS: The exclamation point within an equilateral triangle to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.
	WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.

The Remote Control

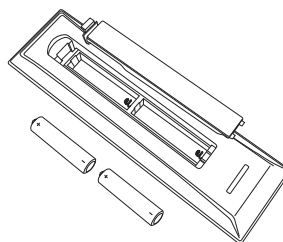
Simple at-a-glance reference of your remote control.



1. Switch between TV ON or Standby
2. Switch between external input sources
3. Still Picture
4. To display the teletext screen
5. TEXT subtitle pages if available
6. Stereo/Bilingual transmissions
7. Number buttons
8. Audio Description
9. Switch between ATV and DTV
10. Change the volume
11. Change the channel

12. In TV mode: Display on-screen information
In Text mode: Access the index page
13. Mute the sound
14. Display the QUICK menu
15. Exit the menu system
16. Display EPG
17. Go to the previous level of the menu
18. Display the on-screen menu
19. Menu navigation: ▲, ▼, ◀, ▶:
In Text mode: Change the page
⊙ Confirm the selection
20. Colour button: Text and PVR control buttons
E? Reveal concealed text
E Hold a wanted page
E Enlarge text display size
E/E Select a page while viewing a normal picture

Inserting batteries and effective range of the remote



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, 1.5V.

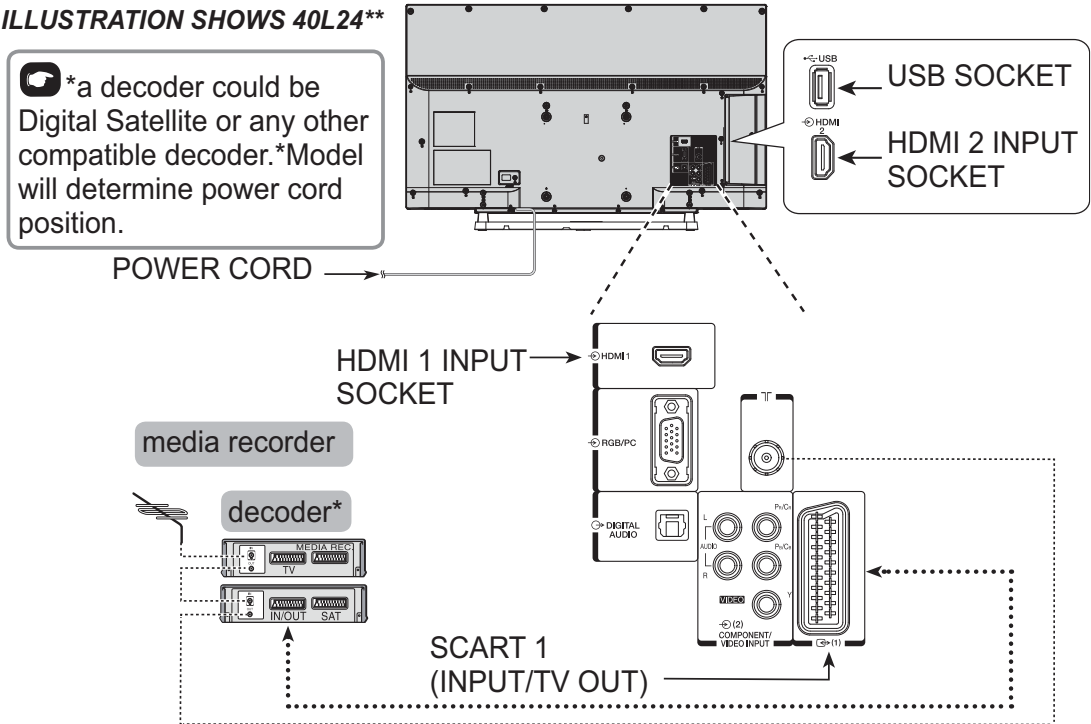
Do not combine a used, old battery with a new one or mixed battery types. Remove exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 56 of this manual.

Warning: batteries must not be exposed to excessive heat such as sunlight or fire.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the batteries may need replacing.

Connecting External Equipment

Before connecting any external equipment, turn off all main power switches. If there is no switch remove the mains plug from the wall socket.



Aerial cables: -----

Connect the aerial to the ANT socket on the rear of the television.

If you use a decoder and/or media recorder, connect through the decoder and/or media recorder to the television.

SCART cables: -----

Connect the video recorder **IN/OUT** or decoder **TV** socket to the television. Connect the media player **SAT** socket to the decoder **MEDIA REC.** socket.

Before running **Auto Tuning** put your decoder and media recorder to **Standby**.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD, decoder or electrical equipment with digital audio and video output. It is designed for best performance with 1080i high-definition video signals but will also accept and display 480i, 480p, 576i, 576p, 720p and 1080p. HDMI1 also support VGA, SVGA, XGA, WXGA and SXGA.

NOTE: Although this television is able to connect to HDMI equipment it is possible that some equipment may not operate correctly.

A wide variety of external equipment can be connected to the back of the television, therefore the relevant owner's manuals for all additional equipment must be referred to.

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired channel button. To recall external equipment, press to select.

NOTE: Due to copy protected signal in some DTV programme, non-scrambled content and scrambled content with "copy freely (CGMS-A: 00)" are available via SCART analogue video and audio output.

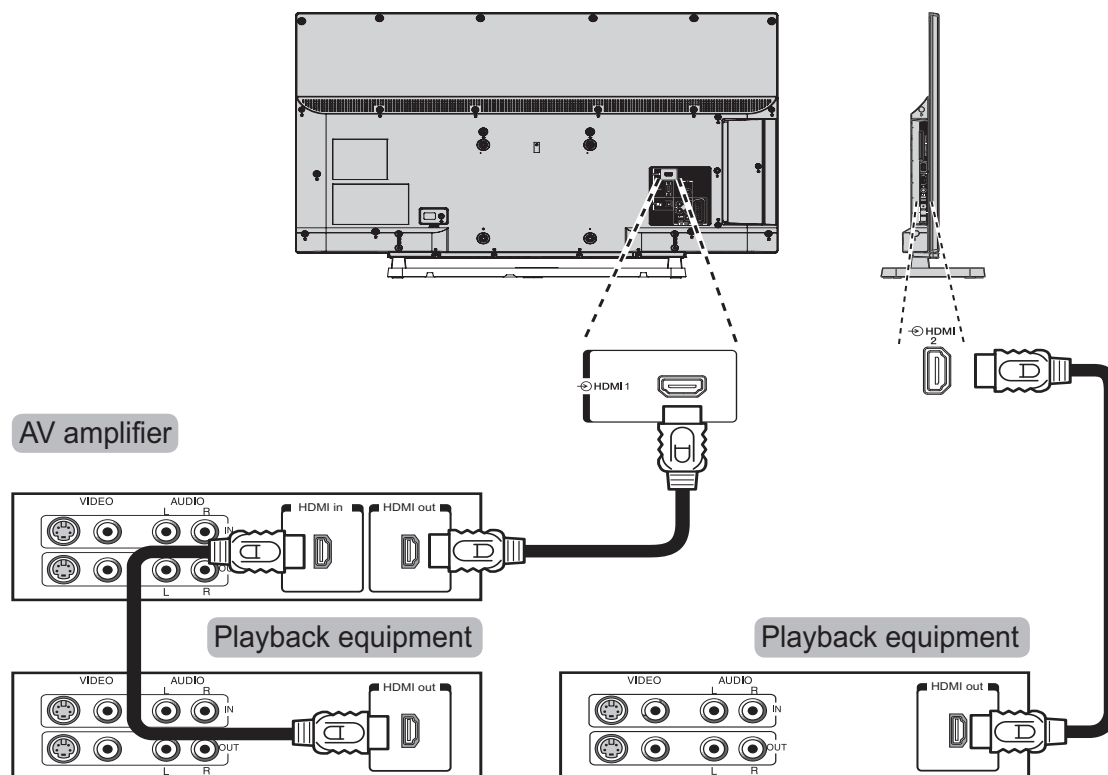
DTV Programme	SCART Analog Output
Scrambled with CGMS-A: 00 (Copy Freely)	Output via SCART
Scrambled with CGMS-A: 01 (Copy No More)	Not output via SCART
Scrambled with CGMS-A: 10 (Copy Once)	Not output via SCART
Scrambled with CGMS-A: 11 (Copy Never)	Not output via SCART
Non- scrambled	Output via SCART

*CGMS-A (Copy Generation Management System-Analog) is a copy protection mechanism for analog television signals.

HDMI CEC Connections

The basic functions of connected audio/video equipment can be controlled using the television's remote control if an HDMI CEC compatible device is connected.

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Connecting an HDMI or DVI Device to the HDMI Input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 13.

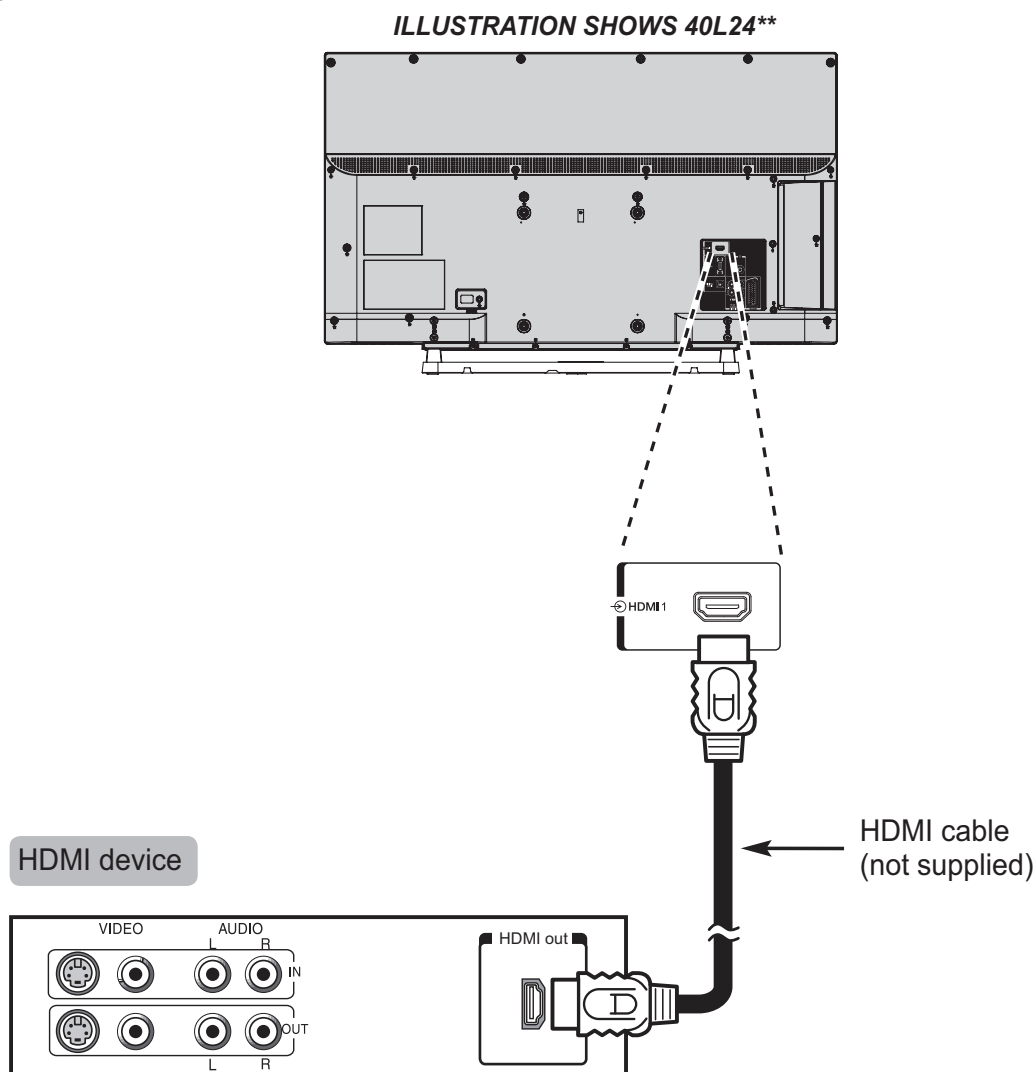
NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard.
- Supported Audio format: Linear PCM and Dolby Digital, sampling rate 32/44.1/48kHz.

To connect an HDMI device

Connect an HDMI cable (type A connector) from the device to the HDMI terminal. For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (**HDMI**®).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this mode.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).



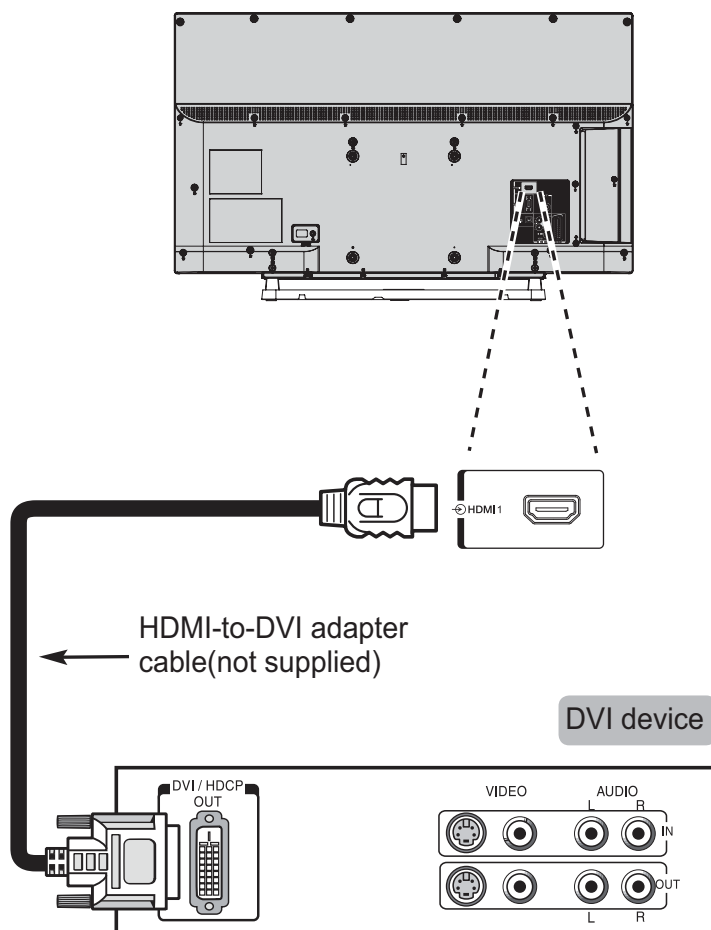
To view the HDMI device video, press the  button to select HDMI 1 or HDMI 2 mode.

To connect a DVI device

Connect an HDMI-to-DVI adapter cable (HDMI type A connector) to the HDMI 1.

- The maximum recommended HDMI – DVI cable length is 6.6ft (2m).
- An HDMI-to-DVI adapter cable transfers video only.
- Separate analogue audio connection is not supported for audio receivers.

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To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the television. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

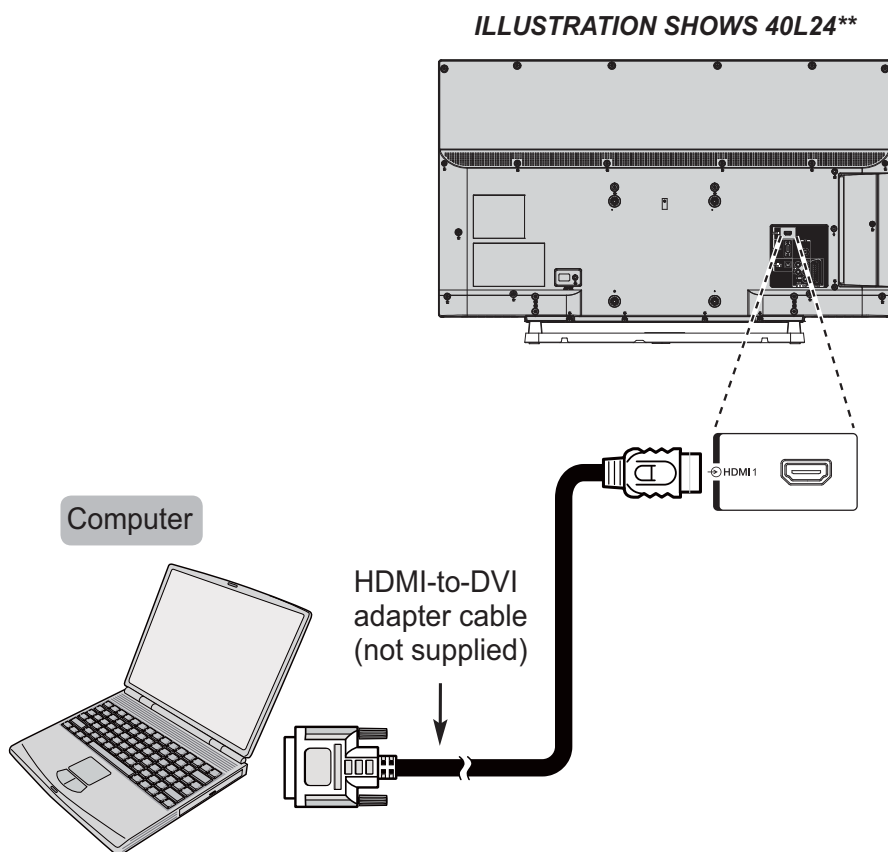
Connecting a Computer

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television.

To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI cable.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



For acceptable PC and video signal formats, see page 13.

NOTE:

- The edges of the images may be hidden.
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

Acceptable Video signals through HDMI terminals

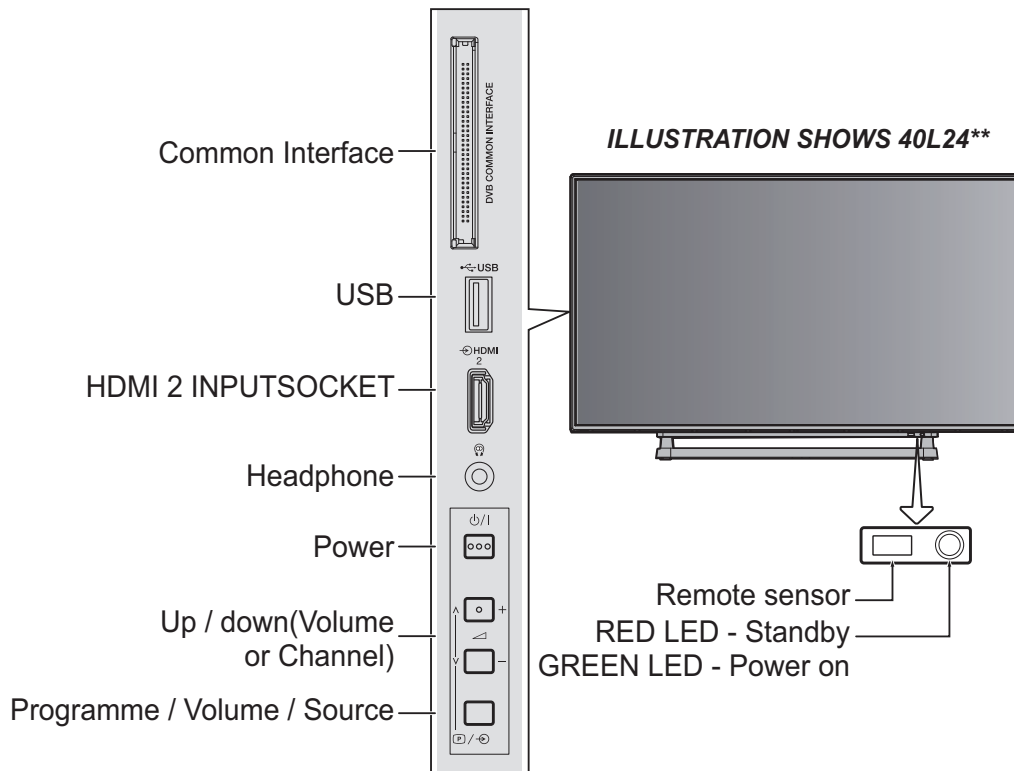
Resolution	H. Frequency (KHz)	V. Frequency (Hz)
480i	15.750	60.000
480p	31.500	60.000
576i	15.625	50.000
576p	31.250	50.000
720p	37.500	50.000
720p	45.000	60.000
1080i	28.125	50.000
1080i	33.750	60.000
1080p	27.000	24.000
1080p	33.750	30.000
1080p	56.250	50.000
1080p	67.500	60.000

Acceptable PC signals through HDMI terminals


Resolution	H (KHz)	V(Hz)	Pixel Clock (MHz)	H-Polarity	V-Polarity	H-Total	V-Total
640 x 480	31.469	59.940	25.175	Negative	Negative	800	525
800 x 600	37.879	60.317	40.000	Positive	Positive	1056	628
1024 x 768	48.363	60.004	65.000	Negative	Negative	1344	806
1280 x 768	47.396	59.995	68.250	Positive	Negative	1440	790
1280 x 768	47.776	59.870	79.500	Negative	Positive	1664	798
1280 x 800	49.702	59.810	83.500	Negative	Positive	1440	823
1280 x 1024	63.981	60.020	108.000	Positive	Positive	1688	1066
1360 x 768	47.712	60.015	85.5	Positive	Positive	1792	795
1440 x 900	55.935	59.887	106.5	Negative	Positive	1904	934



Using the Controls

While all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used to control some functions.



Switching On

If the RED standby LED is unlit, check that the plug is connected to the power supply. If the picture does not appear press  on the remote control, it may take a few moments.

To put the television into standby, press  on the remote control. To switch on the television, press  again. The picture may take a few seconds to appear.


For energy saving:

We recommend that you use the television with factory settings. These settings are designed for energy saving. Unplugging the mains plug will reduce energy use to zero. This is recommended when the television is not being used for long periods, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency reduces energy consumption and can save money by reducing electricity bills.

NOTE: Putting the television into standby mode will reduce energy consumption, but will still draw some power.

Using the Remote Control


To set up the television, you will now need to use the on screen menus. Press **MENU** on the remote control to see the menus.

The on-screen menu appears as a list of six topics. As each symbol is selected by pressing ◀ or ▶ on the navigation ring on the remote control. Press ▲ or ▼ on the navigation ring to move up and down through the menu and use  to select the required choice. The functions of each menu are described in detail throughout this manual.

Using the Controls on the TV

Press - ◀+ to adjust volume.

Press  to display programme information.

Press  and hold until Source List is displayed, then press - ◀+ to scroll through the list until desired input source is located.

Please always refer to the owner's manual of the equipment to be connected for full details.

NOTE: Inserting the headphone plug will mute the sound from all speakers.

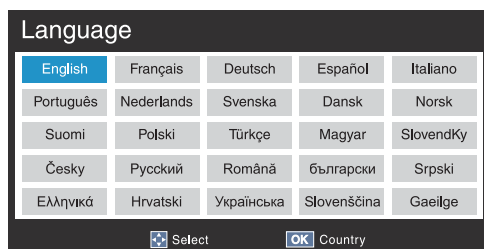
Tuning the Television

Before switching on the television, put your decoder and media recorder to standby if they are connected. To set up the television, use the buttons on the remote control as explained on page 7.

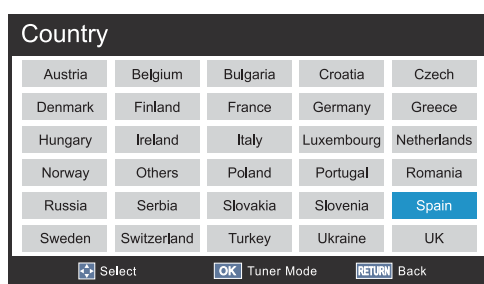
First Time Installation

1. Plug in your television for using it for the first time.

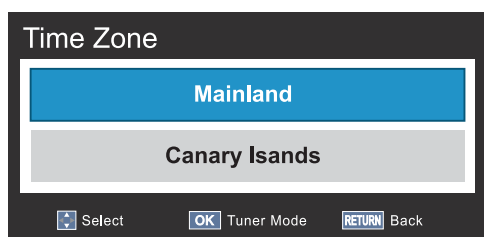
The **Language** menu will appear.



2. Press ▲, ▼, ◀ or ▶ to select your language. Press **OK** to enter **Country** menu.
3. Press ▲, ▼, ◀ or ▶ to select **Country** then press **OK** to enter **Time Zone** page.



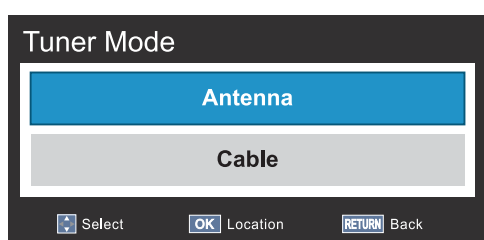
4. Press ▲ or ▼ to select **Time Zone** then press **OK** to enter **Tuner Mode** page.



Press ▲ or ▼ to select **Mainland** or **Canary Islands**(for Spain) / **Mainland** or **Azores Islands**(for Portugal).

NOTE: This function is only available when Country is Spain and Portugal.

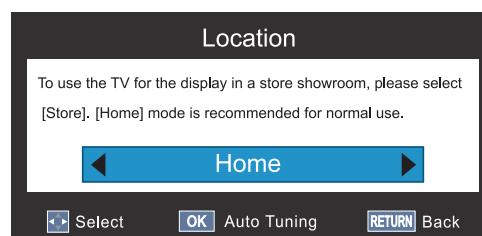
5. Press ▲ or ▼ to select **Antenna** or **Cable**.



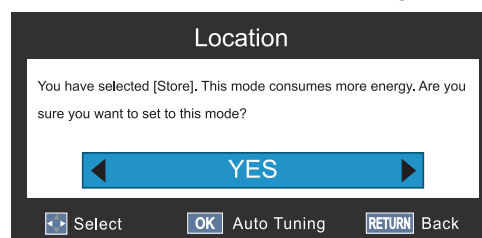
Press **OK** to enter **Location**.

NOTE: This function is only available in certain regions.

6. Press ◀ or ▶ to select **Home** or **Store**. For normal home use, select **Home**.



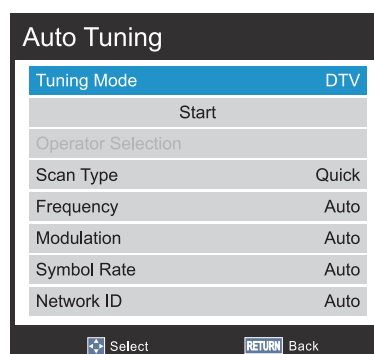
For Store use, confirmation message will pop up.



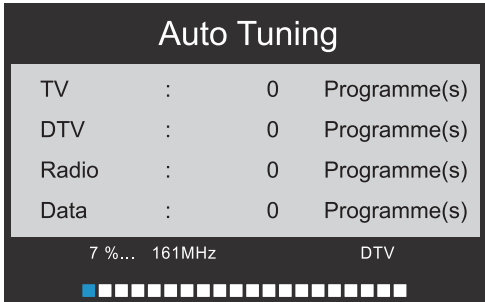
Press ◀ or ▶ to select **YES** or **No** then press **OK** to enter **Auto Tuning** page.

7. Press ▲ or ▼ to select **Tuning Mode** and then press ◀ or ▶ to select **DTV**, **ATV** and **DTV+ATV**.

NOTE: Please make sure the aerial is connected to the TV before tuning.



Press ▲ or ▼ to select **Start** and press **OK**.



The search will begin for all available stations. The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

When the search is completed, the television will automatically select channel 1. This may not be a clear picture or the signal may be weak so the station order can be changed using **ATV/DTV Manual Tuning** in the **Installation** menu.

Please refer to page 18 in this manual to find out more about ATV/DTV Manual Tuning.

Installation

NOTE: When Parental Control is activated, the 4-digit password is needed.

Auto Tuning

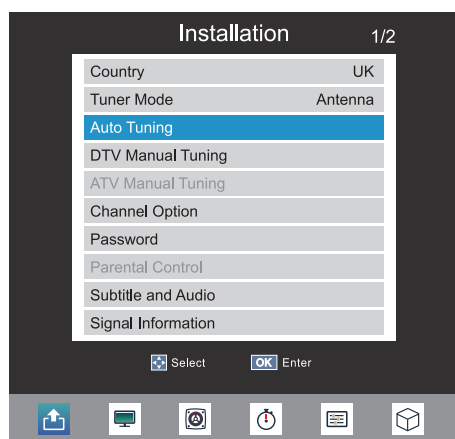
The **Auto Tuning** function will completely re-tune the television and can be used to update the channel list.

NOTE: It is recommended that **Auto Tuning** runs periodically to ensure that all new services are added.

NOTE: All the current channels and settings, for example the locked channels, will be lost.

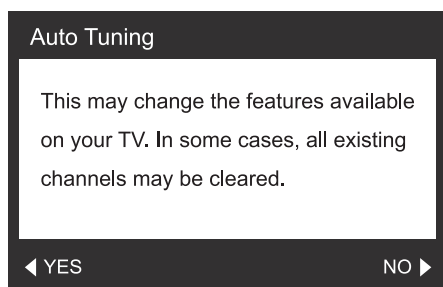
Tuner Mode - Antenna

1. Press **MENU**. Press ◀ or ▶ to select **Installation** menu.



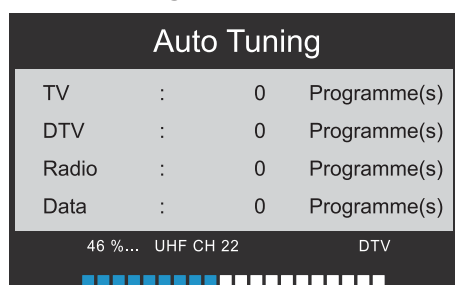
2. Press ▲ or ▼ to select **Auto Tuning** and press **OK** to enter the submenu.

Warning messages will appear first. Press ◀ or ▶ to select **YES** or **No**.



3. Press ▲ or ▼ to select **Tuning Mode** then press ◀ or ▶ to select **DTV, ATV, or DTV+ATV**.

Press ▲ or ▼ to select **Start** and press **OK** to start **Auto Tuning**.



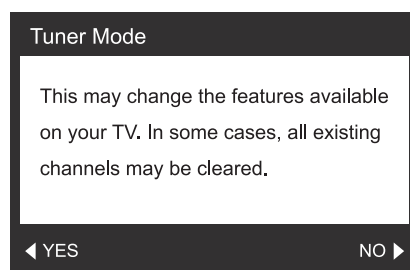
Tuner Mode - Cable

Switching between tuner modes will change the features available on your television.

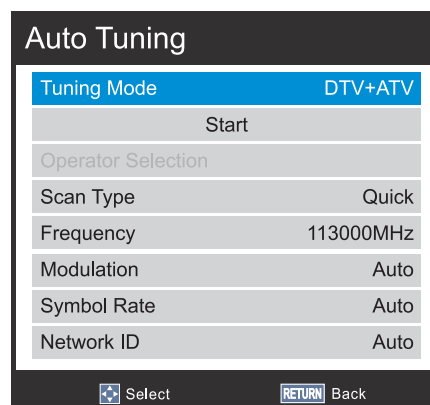
All the current channels and settings, for example, the locked channels, will be lost.

1. In the **Installation** menu, press ▲ or ▼ to select **Auto Tuning** and press **OK**.

Warning messages will appear first. Press ◀ or ▶ to select **YES** or **No**.



2. Press ◀ or ▶ to select **DTV, ATV or DTV+ATV**.



3. Press ▲ or ▼ to select **Operator Selection**, and press ◀ or ▶ to select **Others, Ziggo or UPC,...etc.**

NOTE: Operator Selection can only be adjusted by different Country setting.

4. Press ▲ or ▼ to select **Scan Type**, and press ◀ or ▶ to select **Full** or **Quick**.

5. Press ▲ or ▼ to select **Frequency (MHz), Modulation, Symbol Rate, Network ID**, and use number key pad on the remote to define the information.

Press ▲ or ▼ to select **Start** and press **OK** to start tuning.

NOTE:

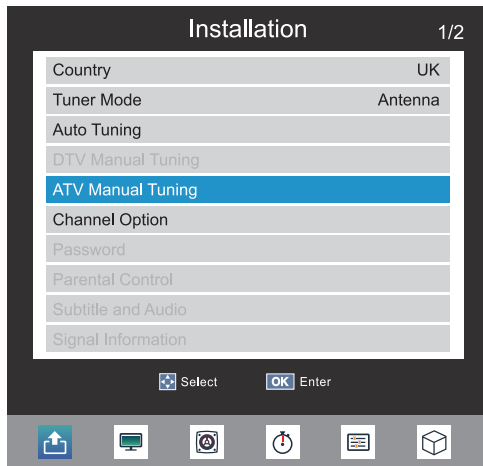
- The information should be given by your cable provider.
- **Network ID** is only available for setting **Quick** as scan type.

Manual Tuning

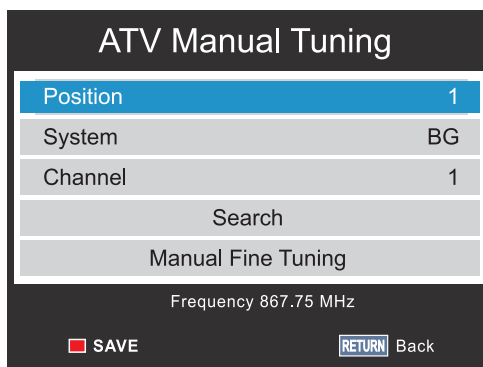
There are two TV modes: ATV and DTV that can be tuned-in manually by using **Manual Tuning**.

ATV mode - Antenna/Cable

1. Press **MENU**. Press ◀ or ▶ to select **Installation**.
2. Press ▲ or ▼ to select **ATV Manual Tuning** and press **OK** to enter the submenu.



3. Press ◀ or ▶ to decide your preferred position. As you do so the other stations will move to make room.



Position

Select the programme position you want to arrange.

System:

Specific to certain areas.

Channel:

The channel number on which a station is being broadcast.

Searching:

Search up and down for a signal.

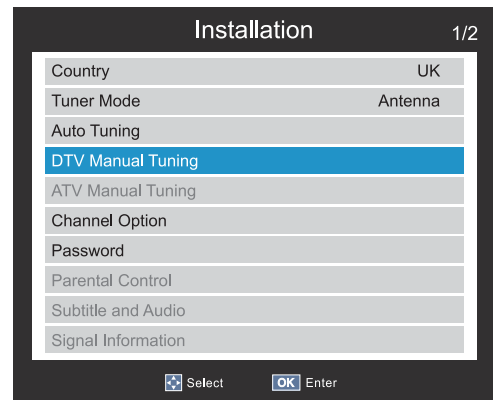
Manual Fine Tuning:

Turn on to execute fine tune function. Turn off to execute manual fine tune function.

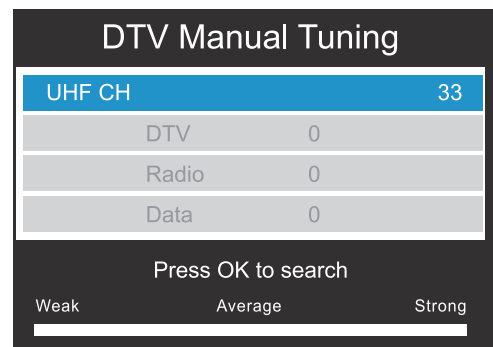
4. Press **SAVE** (red) button save the setting

DTV mode - Antenna

1. Press **MENU**. Press ◀ or ▶ to select **Installation**.
2. Press ▲ or ▼ to select **DTV Manual Tuning** and press **OK** to enter the submenu.

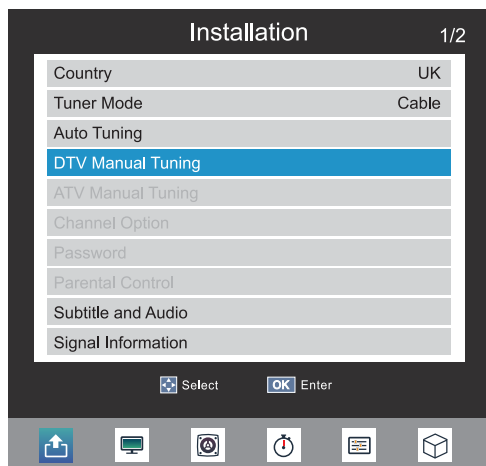


3. Press ▲ or ▼ to select **UHF CH** and press ◀ or ▶ to select or use number key pad on the remote to enter a channel.

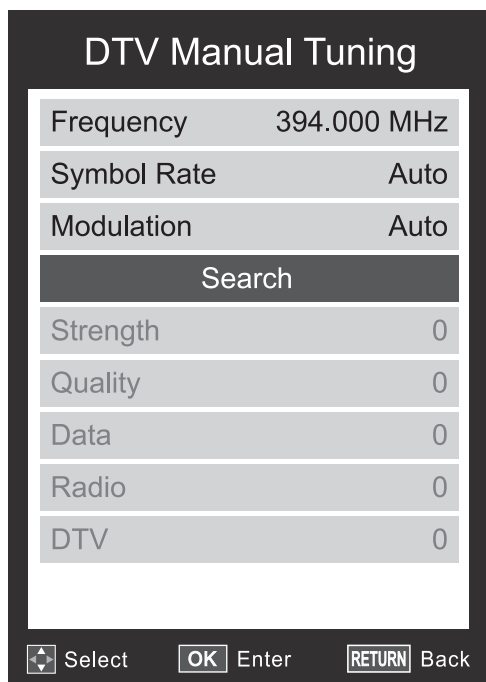


DTV mode - Cable

1. Press **MENU**. Press ◀ or ▶ to select **Installation**.
2. Press ▲ or ▼ to select **DTV Manual Tuning** and press **OK** to enter the submenu.



3. Press ▲ or ▼ to select **Frequency, Symbol Rate or Modulation**, and use number key pad on the remote to define the information or select **Auto** for tuning.



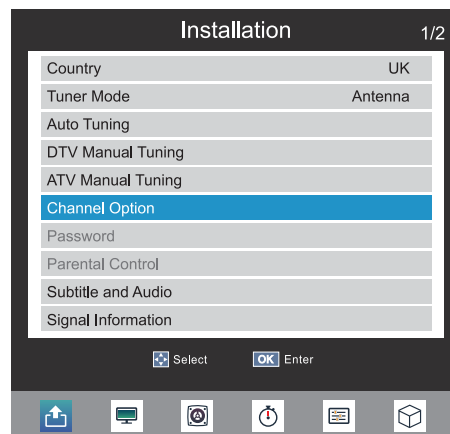
Press ▲ or ▼ to select **Search** and press **OK** to start tuning.

Channel Option

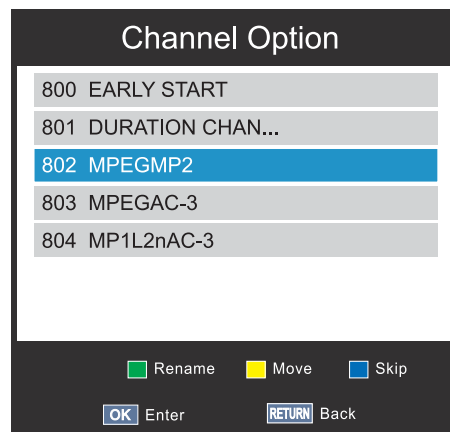
The channel order may be changed to suit your personal preference.

ATV mode

1. Press **MENU**. Press ◀ or ▶ to select **Installation**.



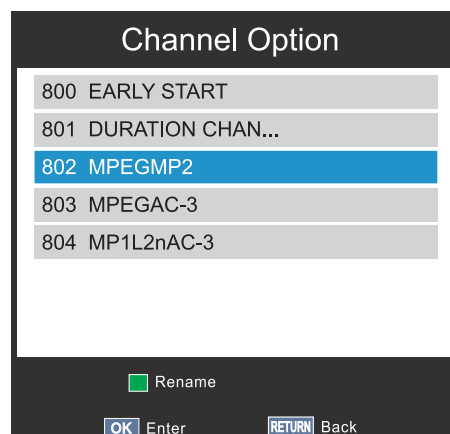
2. Press ▲ or ▼ to select **Channel Option** and press **OK** to enter submenu.
3. Press ▲ or ▼ to select Channels.




Rename

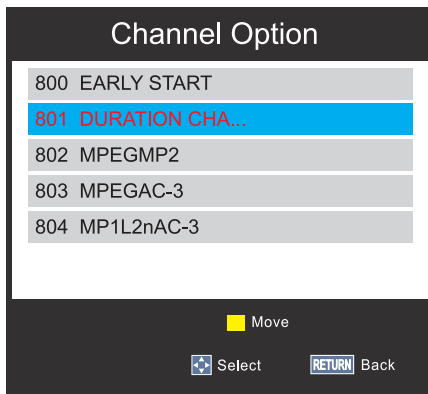
Press the ■ (green) button on the remote.


Pressing ▲, ▼, ◀, ▶ can edit the name of selected channel. Then press **OK** to exit from editing mode.

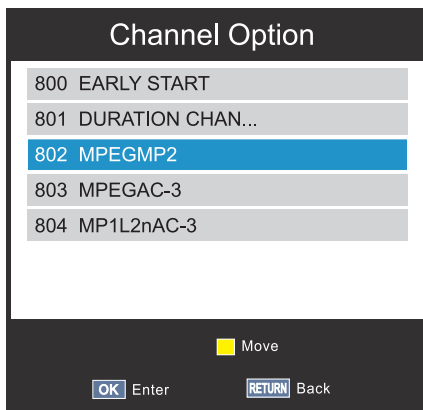


Move

Press ▲ or ▼ to select the desired channel and then press the  (yellow) button on the remote. The selected channel will be highlighted in red.





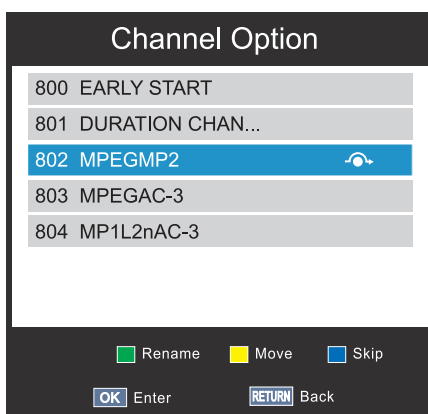
Press ▲ or ▼ to select the channel you wish to move then press the  (yellow) button again. It will stay on the new position you decided.



The name of the two channels are swapped.

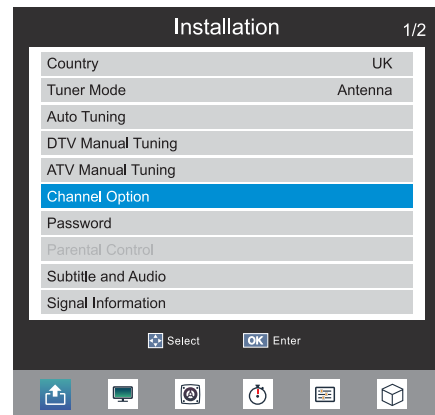
Skip

Press the  (blue) button on the remote. A  icon appears.

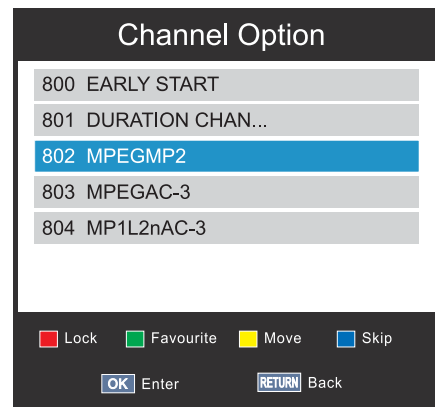


DTV mode

1. Press **MENU**. Press ◀ or ▶ to select **Installation**.

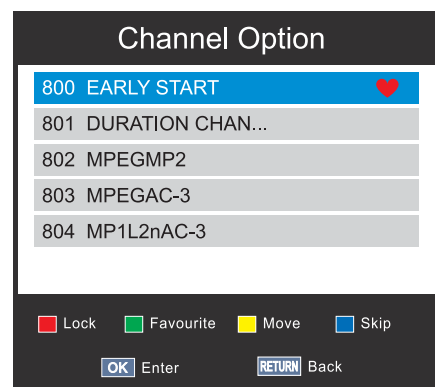


2. Press ▲ or ▼ to select **Channel Option** and press **OK** to enter the submenu.
3. Press ▲ or ▼ to select Channels.



Favourite

Press the  (green) button on the remote. A  icon appears.





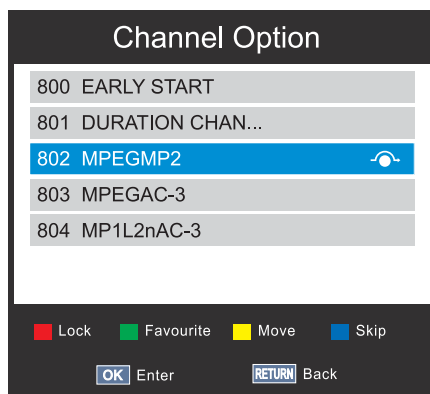
Note: Press **OK** to show the **Channel List** and press ◀ or ▶ to switch to **Favourite List**.

The desired channel is displayed on the list.





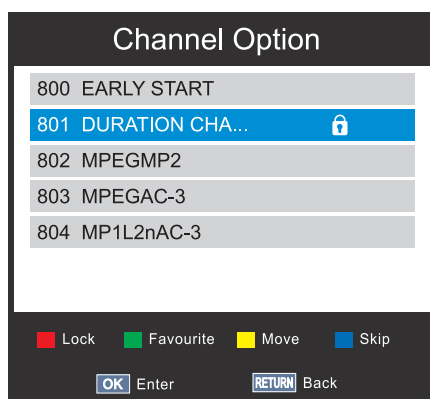
Skip

Press the  (blue) button on the remote. A  icon appears.






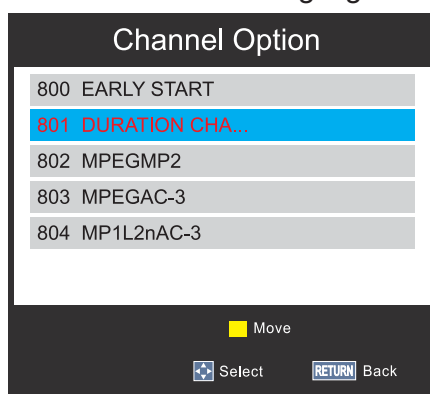
Lock




Press the  (red) button on the remote. A  icon appears.

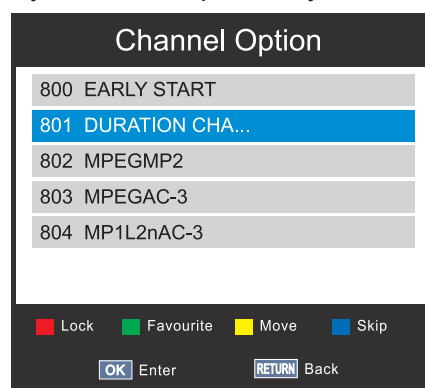


Move

Press  or  to select the desired channel and then press the  (yellow) button on the remote. The selected channel will be highlighted in red.






Press  or  to select the channel you wish to move then press the  (yellow) button again. It will stay on the new position you decided.

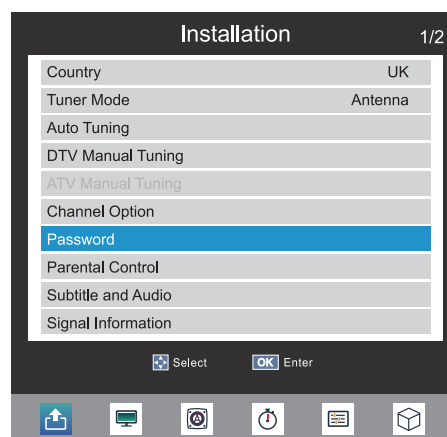


The name of the two channels are swapped.

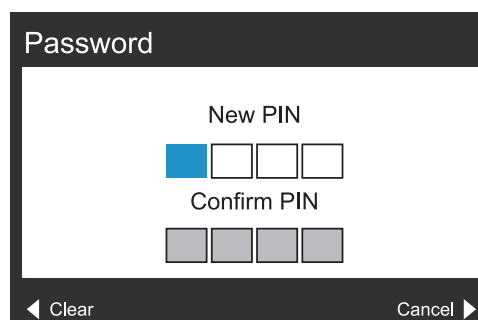
Password

NOTE: This function is only available in DTV mode. Change the 4-digit parental control password. The factory default password is "0000".

1. In the **Installation** menu, press  or  to select **Password**, and press  to enter the submenu.



2. Enter a new 4-digit password, and re-enter the new password again to confirm.



NOTE: "0000" cannot be used.

Parental Control

This function blocks channels or programmes that you do not want to or that you do not want your children to watch.

A password is required to access this function.

The factory default password is "0000".

NOTE: When **Parental Control** is activated, you will need to enter the 4-digit password before you enter the **DTV Manual Tuning** submenu under the **Installation** menu. After auto tuning, all blocked channels will be released.

1. In the **Installation** menu, press ▲ or ▼ to select **Parental Control**, and press **OK** to enter the submenu.
2. Enter the 4-digit password.
3. Press ▲ or ▼ to set the age rating from age **4~18** or select **Off** to turn this function off.

NOTE: This function is available for programmes with Age Rating information.

Subtitle and Audio

You can choose the **Subtitle Type** or **Audio Type** from **Normal** or **Hearing Impaired**. If **Hearing Impaired** is selected, it provides subtitle services to deaf and hard of hearing viewers with additional descriptions.

Digital Subtitle Language or **Audio Language** allows a programme or film to be viewed with a choice of soundtrack language, provided they are currently being broadcasted.

1. In the **Installation** menu, press ▲ or ▼ to select **Subtitle and Audio**, and press **OK** to enter the submenu.
2. Press ▲ or ▼ to select **Subtitle Display** and press ◀ or ▶ to select **On** or **Off**.
3. Press ▲ or ▼ to select **Subtitle Type** and press ◀ or ▶ to select **Normal** or **Hearing Impaired**.
4. Press ▲ or ▼ to select **Audio Type** and press ◀ or ▶ to select **Normal**, **Hearing Impaired** or **Visual Impaired**.
5. Press ▲ or ▼ to select **Digital Subtitle Language**, **Digital Subtitle Language 2nd**, **Audio Language** or **Audio Language 2nd** and press ◀ or ▶ to select your preferred language.

Common Interface

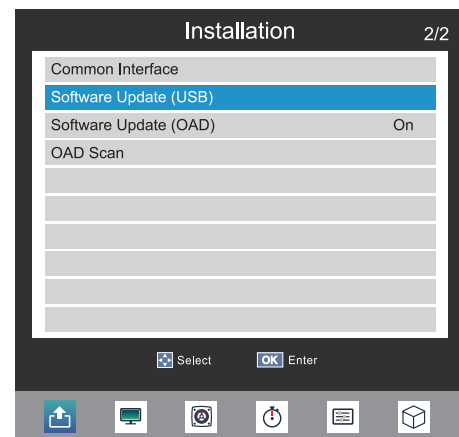
The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

1. Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on the screen to confirm that the CAM has been inserted.
2. In the **Installation** menu, press ▲ or ▼ to select **Common Interface**, and press **OK** to enter the submenu.
3. Details of the CAM should now be available.

NOTE: The software updating of CI Plus CAM may be automatically executed. At this time, any Recording/Reminder pro-programme timer will be cancelled.

Software Update (USB)

1. Insert a USB storage device with a firmware file.



2. Press **MENU**. Press ◀ or ▶ to select **Installation**.
3. Press ▲ or ▼ to select **Software Update (USB)** and press **OK**.
4. Select **Yes** to start upgrading the firmware or **No** to cancel and return to **Installation** menu.

Picture Controls

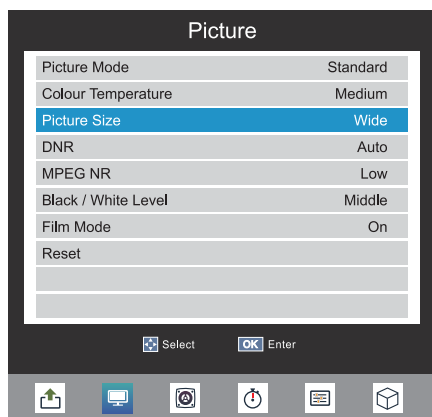
Most of the picture controls and functions are available in both **digital** and **analogue** modes.

NOTE: Features not available will be greyed out.

Picture Mode

You can adjust the picture appearance by selecting the preset value in picture mode based on the programme category.

1. Press **MENU**. Press ◀ or ▶ to select **Picture**.



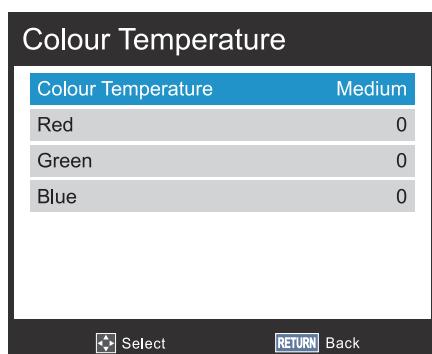
2. Press ▲ or ▼ to select **Picture Mode** and press **OK** to enter the submenu.
3. Press ▲ or ▼ to select **Picture Mode** and press ◀ or ▶ to select **Dynamic**, **Standard**, **Movie**, **Game** or **User**.

NOTE: Game is not available for the TV input mode.

Colour Temperature

Colour Temperature increases the “warmth” or “coolness” of a picture by increasing the red or blue tint.

1. In the **Picture** menu, press ▲ or ▼ to select **Colour Temperature** and press **OK**.
2. Press ▲ or ▼ to select **Colour Temperature** and press ◀ or ▶ to select **Medium**, **Warm** or **Cool** to suit your preference.



3. Press ▲ or ▼ to select **Red**, **Green** or **Blue** and press ◀ or ▶ to adjust the settings as required.

Digital Noise Reduction

DNR (Digital Noise Reduction) enables you to “soften” the screen representation of a weak signal to reduce the noise effect.

1. In the **Picture** menu, press ▲ or ▼ to select **DNR**.
2. Press **OK** to enter submenu.
3. Press ▲ or ▼ to select **Off**, **Low**, **Middle**, **High**, or **Auto**.

MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated.

Using the **MPEG NR** feature reduces this effect by smoothing out the edges.

1. In the **Picture** menu, press ▲ or ▼ to select **MPEG NR**.
2. Press **OK** to enter submenu
3. Press ▲ or ▼ to select **Off**, **Low**, **Middle** or **High**.

Black/White Level

This function increases the strength of dark areas of the picture, which improves picture definition.

1. In the **Picture** menu, press ▲ or ▼ to select **Black/White Level**.
2. Press **OK** to enter submenu.
3. Press ▲ or ▼ to adjust the level from **Off**, **Low**, **Middle** or **High**. The effect depends on the broadcast and is most noticeable on dark colours.


Film Mode

A film's picture runs 24 frames a second, whereas movie software such as DVD, etc., that you watch on your television at home runs at 30 (NTSC) or 25 (PAL) frames a second. To convert this signal to reproduce a smooth motion and picture quality, select the Film Mode.

1. In the **Picture** menu, press ▲ or ▼ to select **Film Mode**.
2. Press **OK** to enter the submenu.
3. Press ▲ or ▼ to adjust **Off** or **On**.



PC Settings

Most of the picture controls and functions are available. However features not available will be greyed out.

1. In the **PC input** mode, the Manual Setting is not displayed.
2. First press RC  than press **▲** or **▼** to select **PC input** mode than ok to enter the submenu.
3. This function may not be available for some signal or if no signal is received.
4. The optimum points of the clock phase and sampling clock adjustments may be incomprehensible according to the input signals.

Auto Adjust

Automatically adjust all PC functions by the PC resolution.

1. Press **MENU** than press **◀** or **▶** to select **Picture**.
2. Use **▲** or **▼** to select **PC Settings** than press  to enter the submenu.
3. Use **▲** or **▼** to select **Auto Adjust** than press .
4. It will automatically adjust all PC functions by the PC resolution.

NOTE:

- The screen is disrupted momentarily when adjusting PC Settings. This is not a sign of malfunction.
- The default settings and adjustment ranges may vary depending on the input signal format.

Horizontal Pos. and Vertical Pos.

Connect the PC and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

1. In the **PC Settings** menu, press **▲** or **▼** to select **Horizontal Pos.** or **Vertical Pos.**
2. Use **◀** or **▶** to adjust the settings as required.

Clock Phase

The Clock phase matches the PC signal with the LCD display.

Adjusting this can clear horizontal stripes and picture blur.

1. In the **PC Settings** menu, press **▲** or **▼** to select **Clock Phase**.
2. Use **◀** or **▶** to adjust the settings as required.


Sampling Clock

Adjusting the Sampling Clock alters the number of pulses per scan, this will clear vertical lines on the screen.

1. In the **PC Settings** menu, press **▲** or **▼** to select **Sampling Clock**.
2. Use **◀** or **▶** to adjust until the picture clears.

Reset

Use Reset to return all items to the original factory settings.

1. Press **MENU** than press **▲** or **▼** to select Reset.
2. Press  to execute Reset.

Picture Size

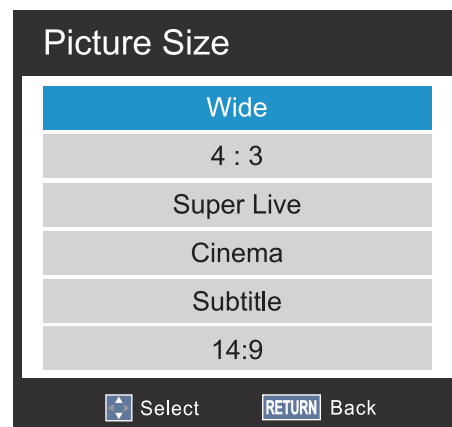
Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats. There are two ways to display Picture Size page:

Main Menu -

1. Press **MENU** then use ◀ or ▶ to select **Picture**. Use ▲ or ▼ to select **Picture Size** and press **OK** to display the **Picture Size** page.
2. Press ▲ or ▼ to select the options.

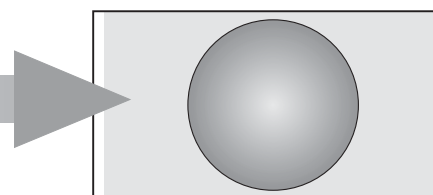
Quick Menu -

1. Press **QUICK** on remote control to display the **Quick** menu.
2. Use ▲ or ▼ to select the **Picture Size**, and press ◀ or ▶ to select the option.



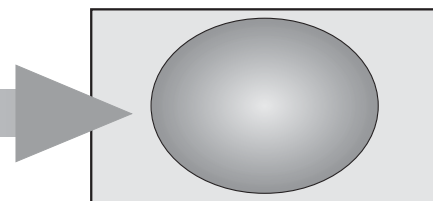
Wide (Except PC)

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) black bars may be visible on the top and bottom of the screen.



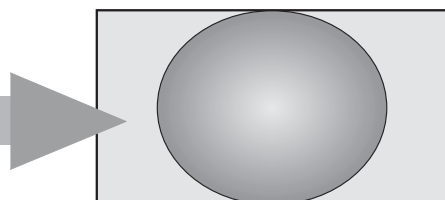
Wide (PC only)

This setting will show the picture without over scan and side panel when watching a PC signal source via HDMI or PC terminal.



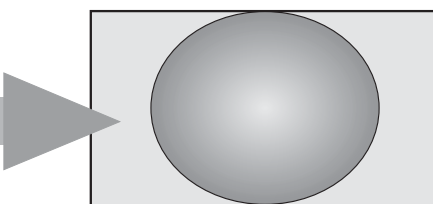
4:3

Use this setting to view a true 4:3 broadcast.



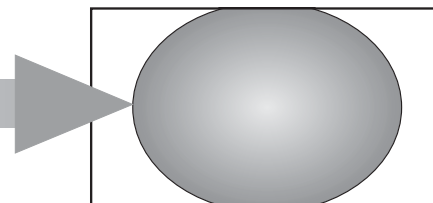
Super Live

This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.



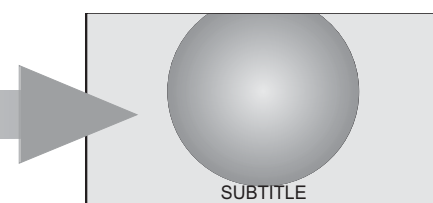
Cinema

When watching letterbox format films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.



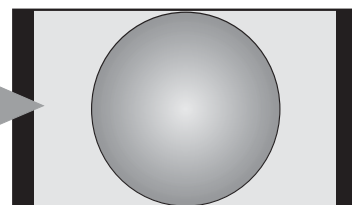
Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.

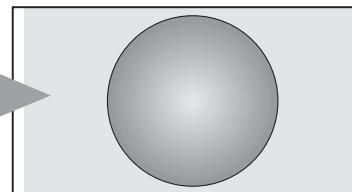


14:9

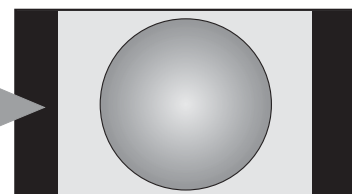
Use this setting when watching a 14:9 broadcast.

**Native**

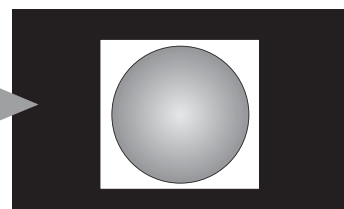
The setting will show the picture without over scan, i.e. WYSIWYG. This option is available when watching video signal source via HDMI or watching DTV (HD signal).

**Normal**

This setting will show the picture without over scan, i.e. WYSIWYG. This option is only available when watching a PC signal source via HDMI or PC terminal.

**Dot by Dot**

“Dot by Dot” is a non-scaling display. Depending on the input signal format, the setting will display the picture with side panels and/or bars at the top and bottom (i.e. VGA input source).



You can choose the picture size from Wide, 4:3, Super Live, Cinema, Subtitle, 14:9, Native, Normal or Dot by Dot.

Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.



Available Picture Size

		Wide	4:3	Super Live	Cinema	Subtitle	14:9	Native	Normal	Dot by Dot
ATV		o	o	o	o	o	o	x	x	x
DTV	SD	o	o	o	o	o	o	x	x	x
	HD	o	o	o	o	x	o	o	x	x
Scart		o	o	o	o	o	o	x	x	x
CVBS		o	o	o	o	o	o	x	x	x
YPbPr	SD	o	o	o	o	o	o	x	x	x
	HD	o	o	o	o	x	x	x	x	x
HDMI	SD	o	o	o	o	o	o	o	x	x
	HD	o	o	o	o	x	x	o	x	x
DVI		o	x	x	x	x	x	x	o	o
D-SUB		o	x	x	x	x	x	x	o	o


Sound Controls

Volume Controls and Mute Sound

Volume



Press  or  to adjust the volume.

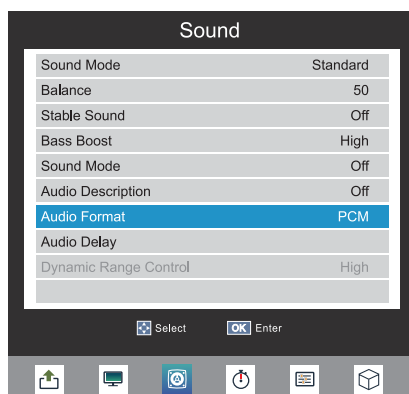
Sound Mute






Press  on the remote once to turn the sound off and again to cancel.

Sound Mode

You can select your desired sound type from four sound modes: **Standard**, **Music**, **Movie** and **Sport**. Or Select **User** to modify the values you like.








1. Press **MENU** then use  or  to select **Sound**.



2. Press  or  to select **Sound Mode** then press  to enter the submenu.
3. Press  or  to adjust **Sound Mode** as **Standard**, **Music**, **Movie**, **Sport** or **User**.
4. Only the values of **User** mode can be adjusted.








Balance

The sound controls are accessible in digital and analogue modes.

1. Press **MENU**. Press  or  to select **Sound**.
2. Press  or  to select **Balance** and press  to enter the submenu.
3. Press  or  key to adjust the value.








Stable Sound

The **Stable Sound** feature limits high volume levels in order to prevent the extreme changes in volume that can occur when channels are changed or a programme switches to a commercial.

1. Press **MENU**. Press  or  to select **Sound**.
2. Press  or  to select **Stable Sound** then press  to enter the submenu.
3. Press  or  to adjust **Off** or **On**.








Bass Boost

Bass Boost enhances depth of the sound.

1. Press **MENU**. Press  or  to select **Sound**.
2. Press  or  to select **Bass Boost** and press  to enter the submenu.
3. Press  or  to adjust **Off**, **Low**, or **High**.










Surround Sound

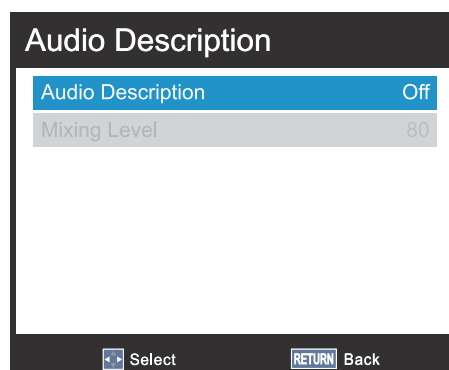
Enhances audio L/R response when listening to stereo.

1. Press **MENU** then use  or  to select **Sound**.
2. Press  or  to select **Surround Sound** then press  to enter the submenu.
3. Press  or  to adjust **Off** or **Surround**.

Audio Description

Audio Description is an additional narration describing on-screen action, body language, expressions and movements for people with visual disabilities while watching the TV. This function enables you to choose the type of narrations.

1. Press **MENU**. Press  or  to select **Sound**.
2. Press  or  to select **Audio Description** and press  to enter the submenu.
3. Press  or  to select **Audio Description**, and press  or  to switch **On** or **Off**.



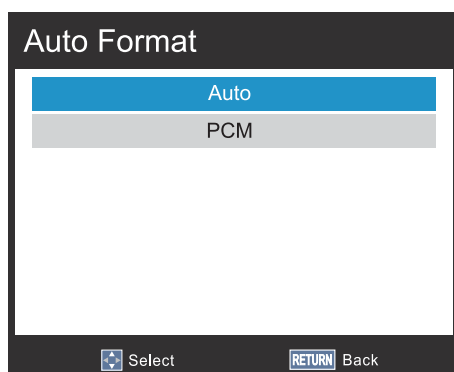
4. Press ▲ or ▼ to select **Mixing Level**, and press ◀ or ▶ to change the setting.

NOTE: **Mixing Level** can only be adjusted when **Audio Description** is **On**.

NOTE: Press the **AD** button on the remote control to switch the **Audio Description On** or **Off**.

Audio Format

1. Press **MENU**. Press ◀ or ▶ to select **Sound**.
2. Press ▲ or ▼ to select **Audio Format** and press **OK** to enter the submenu.
3. Press ▲ or ▼ to select **Auto** or **PCM**.



Audio Delay

1. Press **MENU**. Press ◀ or ▶ to select **Sound**.
2. Press ▲ or ▼ to select **Audio Delay** and press **OK** to enter the submenu.
3. Press ▲ or ▼ to select **SPDIF Delay(ms)** or **Speaker Delay(ms)**.
4. Press ◀ or ▶ to adjust the values.

Dynamic Range Control

This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).

1. Press **MENU**. Press ◀ or ▶ to select **Sound**.
2. Press ▲ or ▼ to select **Dynamic Range Control** then press **OK** to enter the submenu.
3. Press ▲ or ▼ to adjust **Low** or **High**.

Time Controls

Off Timer

This feature allows you to set the television to turn off automatically at a certain time of day or after a certain length of time.

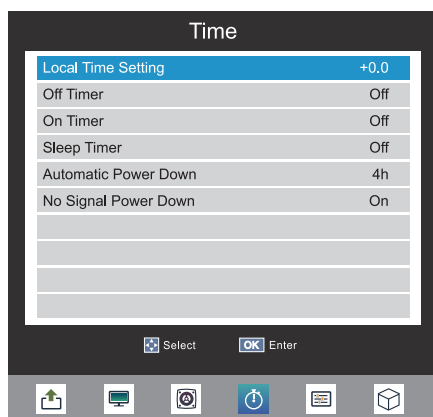
1. Press **MENU**. Press ◀ or ▶ to select **Time**.
2. Press ▲ or ▼ to select **Off Timer** and press **OK** to enter the submenu.
3. Press ◀ or ▶ to switch **Off Timer** repeat mode from **Off**, **Once**, **Every Day**, **Mon.~Fri.**, **Mon.~Sat.**, **Sat.~Sun.** or **Sunday**.
4. Press ▲ or ▼ to select **Hour** or **Minute** to adjust the time you'd like to set TV turn off automatically.

NOTE: Hour and Minute are not available if Off Timer sets Off.

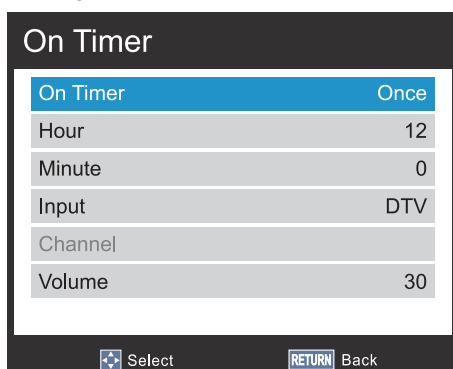
On Timer

This feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.

1. Press **MENU**. Press ◀ or ▶ to select **Time**.



2. Press ▲ or ▼ to select **On Timer** and press **OK** to enter the submenu.
3. Press ▲ or ▼ to select **On Timer** and press ◀ or ▶ to adjust repeat mode from **Off**, **Once**, **Every Day**, **Mon.~Fri.**, **Mon.~Sat.**, **Sat.~Sun.** or **Sunday**.



NOTE: The settings are only available when **On Timer** is On.

4. Press ▲ or ▼ to select **Hour** or **Minute** and press ◀ or ▶ to adjust the time for the TV to turn on automatically.
5. Press ▲ or ▼ to select **Input** and press ◀ or ▶ to select **DTV**, **Radio**, **Data**, **ATV**, **EXT1**, **EXT2**, **HDMI1**, **HDMI2**, or **PC**.
6. Press ▲ or ▼ to select **Channel** and press ◀ or ▶ to change the channel number.

NOTE:

- Channel is only available when the Input is **ATV** or **DTV**.

7. Press ▲ or ▼ to select **Volume** and press ◀ or ▶ to modify the volume.

Sleep Timer

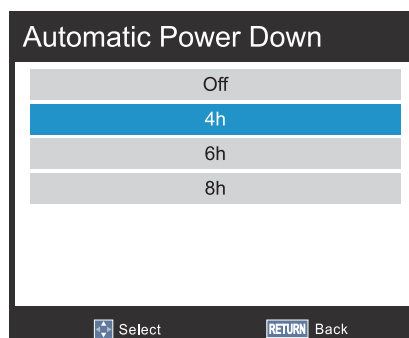
The television can be set to turn itself Off after a certain length of time.

1. Press **MENU** and press ◀ or ▶ to select **Time**.
2. Press ▲ or ▼ to select **Sleep Timer** then press **OK** to enter submenu.
3. Press ▲ or ▼ to select the time TV should turn off. (**Off**, **10 Min**, **20 Min**, **30 Min**, **60 Min**, **90 Min**, **120 Min**, **180 Min**, **240 Min**, **360 Min**, **480 Min**)

Automatic Power Down

The TV will automatically turn itself off (standby) within 4 hours, if you do not touch the control buttons on the remote control or on the TV control panel.

1. In the **Time** menu, press ▲ or ▼ to select **Automatic Power Down**.
2. Press **OK** key to enter submenu. Then use ▲ or ▼ to adjust **Off**, **4h**, **6h** or **8h**.



No Signal Power Down

It will automatically turn off if no input signal is detected after approximately 15 minutes.

1. In the **Time** , press ▲ or ▼ to select **No Signal Power Down**.
2. Press ▲ or ▼ to adjust **Off** or **On**.

Time Zone

1. Press **MENU** and use ◀ or ▶ to select **Time**.
2. Use ▲ or ▼ to select **Time Zone** then press (OK) to enter the submenu.
3. Use ▲ or ▼ to select **Mainland** or **Canary Islands**(for Spain) / **Mainland** or **Azores Islands**(for Portugal).

NOTE: This function is only available when Country is Spain or Portugal.

Setup Controls

Location

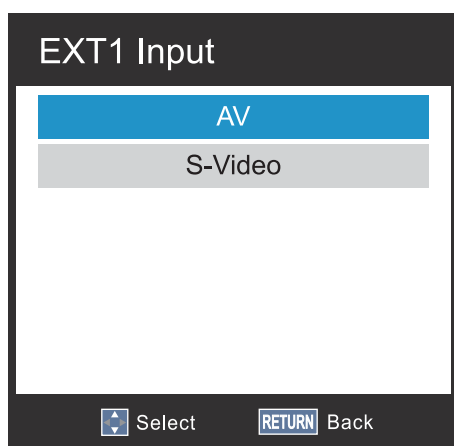
This feature is for configuring your viewing mode. Please select **Home** when using it in your home. For Store use, select **Store**.

1. Press **MENU** then use ◀ or ▶ to select **Setup**.
2. Press ▲ or ▼ to select **Location**.
3. Press ▲ or ▼ to select **Home** or **Store**.

EXT1 Selection

You can select source as **AV** or **S-Video** from this function.

1. Press **MENU**. Press ◀ or ▶ to select **Setup**.
2. Press ▲ or ▼ to select **EXT1 Input** and press **OK** to enter submenu.
3. Use ▲ or ▼ to select **AV** or **S-Video** as EXT1 input source.



EXT2 Selection

1. Press **MENU**. Press ◀ or ▶ to select **Setup** menu.
2. Press ▲ or ▼ to select **EXT2 Input** and press **OK** to enter submenu.
3. Use ▲ or ▼ to select **Composite** or **Component** as EXT2 input source.

Standby Channel Update

This function only appears while tuner mode is antenna and tuning mode is DTV mode.

If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved.

1. In the **Setup** menu, press ▲ or ▼ to select **Standby Channel Update**.
2. Press **OK** key to enter submenu then use ▲ or ▼ to adjust **On** or **Off**.

System Information

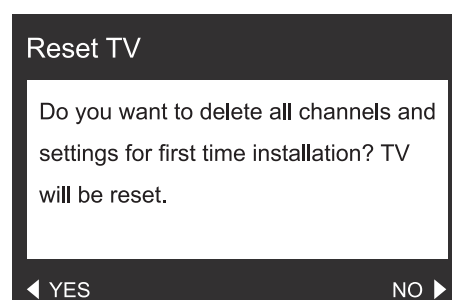
In the **Setup** menu, press ▲ or ▼ to select **System Information** and press **OK** to display the model information and firmware version.

System Information
TOSHIBA
2014
Jun 25 2014, 00:55:11, FW:00.17.10

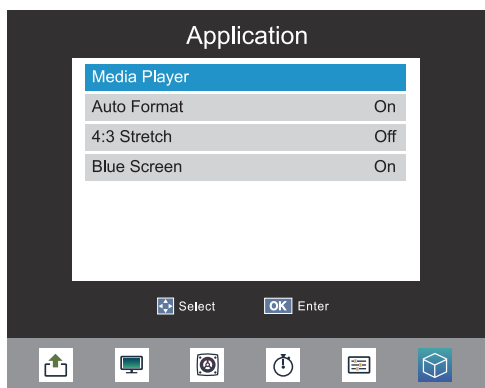
Reset TV

Selecting **Reset TV** will reset all TV settings to their original factory values.

1. In the **Setup** menu, press ▲ or ▼ to select **Reset TV** and press **OK**.
2. Press ◀ or ▶ to select **YES** to confirm or select **NO** to exit.



Application



Auto Format

When this television receives a true Widescreen picture and Auto format is On, it will automatically be displayed in Widescreen format, irrespective of the television's previous setting.

1. In the **Application** menu, press ▲ or ▼ to select **Auto Format** and press **OK** to enter the submenu.
2. Press ▲ or ▼ to select **On** or **Off**.

4:3 Stretch

When **4:3 Stretch** is activated, this function will switch 4:3 format programmes into a full screen picture.

1. In the **Application** menu, press ▲ or ▼ to select **4:3 Stretch** and press **OK** to enter submenu.
2. Press ▲ or ▼ to select **On** or **Off**.

Blue Screen

When **Blue Screen** is selected, the screen will turn blue when no signal is received.

1. In the **Application** menu, press ▲ or ▼ to select **Blue Screen** and press **OK** to enter submenu.
2. Press ▲ or ▼ to select **On** or **Off**.


NOTE: This function is not available in DTV, PC and Media Player modes.

General Controls

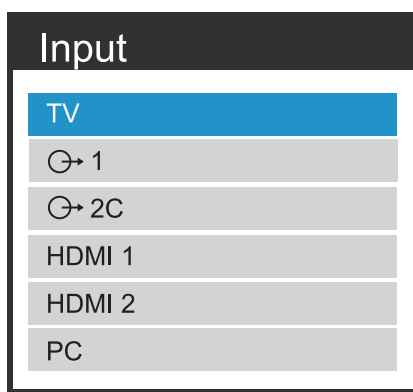
The General Functions allow you to select channels and information, adjust sound features, personalise the picture style and select any connected external equipment.

Input Selection

Use the Input Selection feature if the television does not switch over automatically when using an external device.



Pressing , a list will appear on-screen showing all external equipment.

Use  or  to highlight and  to select.



HDMI® displays which equipment are connected to Input HDMI on the back of the television. It is designed for best performance with 1080i/1080p high definition signals.


Picture Still

This feature is used to hold a still image on the screen. Press  to hold an image on the screen, press  again to cancel.


Text Services and Text Information

Below is a guide to the functions of the remote control text buttons.



 **Displays the index/initial page:**

Press  to access the index/initial page. The page displayed is dependant on the broadcaster.


 **Reveals concealed text:**

To discover the solutions on quiz and joke pages press the  button.



 **Holds a wanted page:**

At times it is convenient to hold a page of text. Press  and  will appear in the top left of the screen. The page will be held on-screen until the button is pressed again.

 **Enlarges the text display size:**

Press  once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.



  **Selects a page while viewing a normal picture:**

Enter the page number then press  , a normal picture will be displayed. The television will indicate when the page is present by displaying the page number at the top of the screen.

To display news flashes:



Select the news flash page for the chosen text service (see the index page of your text service).

By pressing  , news flashes will be displayed as and when they are broadcast.

Press   again to cancel the display.

How to change the page:

Press  or  to change the page.

Press  or  to change the sub page when a sub page is available.

The news flash page must be cancelled before changing channels.


Subtitles

If Subtitles are available for your current programme, pressing the **SUBTITLE** button will toggle Subtitles on or off.

Stereo and Bilingual Transmissions

If stereo or dual language broadcasts are transmitted, the word Stereo or Dual will appear on the screen each time channels are changed and are disappeared after a few seconds. If the broadcast is not in stereo the word Mono will appear.

Stereo: Press  I/II to select **Stereo** or **Mono**.

Bilingual: If a bilingual programme is offered, the word **DUAL** will display on screen. To change between languages, press  I/II to switch between **DUAL I**, **DUAL II** or **Mono**.

Selecting Channels

To select a channel, use the numbered buttons on the remote control.

Channels can also be selected by using **P▲** and **P▼**.




AD Selection

Press the **AD** button on the remote control to switch the Audio Description **On** or **Off**.

ATV/DTV



Press the **ATV/DTV** button on the remote control to switch **ATV** or **DTV** input source.

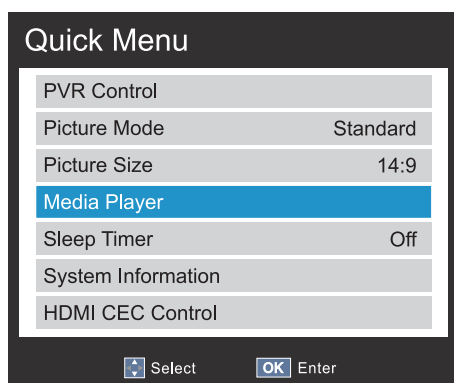
Adjust Volumes and Mute

To adjust TV volume, use  /  button . Or press remote control  button to mute the sound.

Quick Menu

Quick Menu helps you access some options quickly such as **PVR Control**, **Picture Mode**, **Picture Size**, **Media Player**, **Sleep Timer**, **System Information**, and **HDMI CEC Control**.

Press the **QUICK** button to display the **Quick Menu** and use  or  to select the option you would like to change.

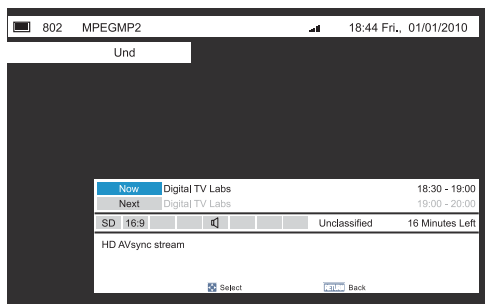


Digital On-Screen Information and Programme Guide

When viewing in digital mode, the on-screen information and programme guide provide access to programme details for all available channels.

Information

1. Press **i+**, and the information screen will appear giving details of the channel and programme currently being viewed.



2. Press **▲** or **▼** to choose from Now or Next information guide.

On-Screen Information Icons

Icons will appear on the Information screen giving details about the programmes being broadcast. Details of these icons are listed below:

	Icon	Description
Service info		Service type (TV, Radio, Data)
Audio info		Skip
		Mono
		Stereo
		Dual mono
		Multichannel
		Dolby Digital
		Dolby Digital+
	HE-AAC / AAC	Audio Coding
Audio/ Subtitle info	AD	Audio Description
	AD	Hearing Impaired

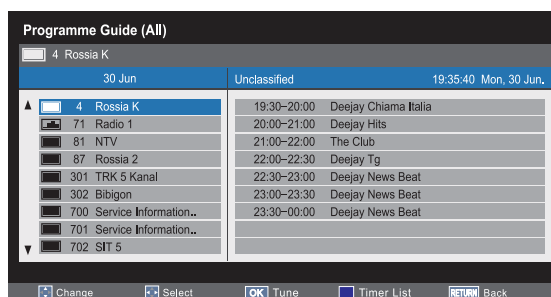
	Icon	Description
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Multi-audio track
	0, 4 - 18	Parental rating
		Encrypted

EPG

EPG (Electronic Programme Guide) supports view program schedule and set recording or reminder timers. You can set or cancel a timer for selected programme within the guide. When the TV is on and the timer activates, a dialogue box is shown informing you that the programme is going to start. When the TV is in standby mode and the timer activates, the TV will wake up with backlight off, speaker mute on, and change to the channel selected.

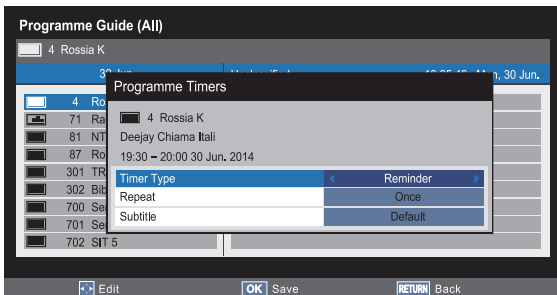
You must set the time correctly before using this function. All set timers are cleared when performing a new channel scan.

1. Press **GUIDE** on the remote to display the **Programme Guide**.



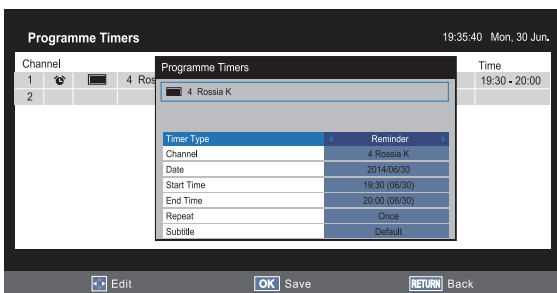
2. Press **◀** or **▶** to select the desired date and press **▲** or **▼** to enter the programme schedule and press **▶** to enter the programme schedule.

3. Press ▲ or ▼ to select the desired program and press **OK** to enter the **Set Timer** menu.
Press ▲ or ▼ to select **Timer Type**, **Repeat** or **Subtitle** and press ◀ or ▶ to adjust the settings as required.
Press **OK** to save the settings.



NOTE: In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.

4. Press the ■ (blue) button on the remote to enter the **Timer List** menu.
5. Press ▲ or ▼ to select the desired program and press **OK** to edit.
- NOTE:** Press the ■ (red) button on the remote to delete the timer.



Press ▲ or ▼ to select **Timer Type**, **Channel**, **Date**, **Start Time**, **End Time**, **Repeat** or **Subtitle** and press ◀ or ▶ to adjust the settings as required.

Press **OK** to save the settings.

NOTE: After adjustment, the TV clock may not match the time in the EPG Programme Guide. The EPG Programme Guide time follows the broadcast stream time which can not be adjusted.

Enjoy Photos through USB Port

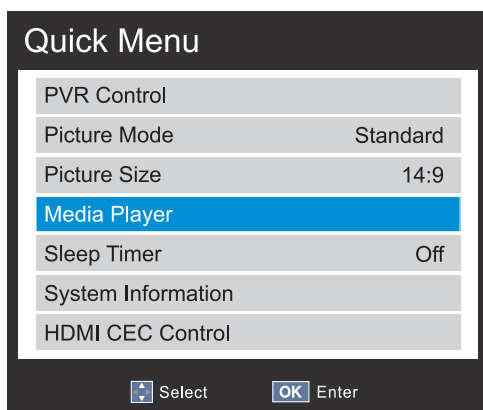
The Photo Viewer allows you to playback image files from a USB storage device.

Media Player	Media Format	File Extension	Video codec (*1)	Audio codec	Note
Photo	JPEG	.jpg .jpeg	JPEG	-	Maximum viewable resolution JPG 15360 x 8640 (Base line) 1024 x 768 (Progressive) BMP 9600 x 6400 NOTE: • Some files may not be Played. • Maximum number of files: 3000/folder
	PNG	.Png	PNG	-	
	BMP	.bmp	BMP	-	

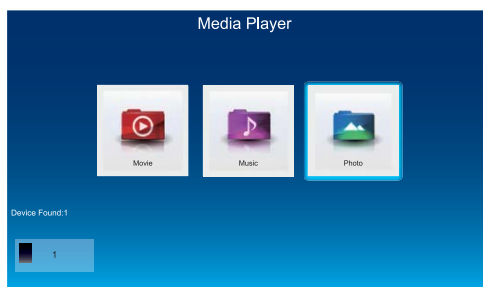
View Photo Files

1. Insert a USB storage device and press **QUICK** on the remote.

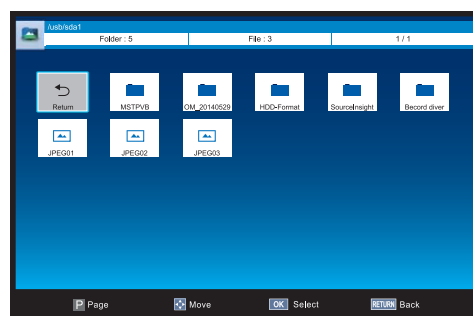
Use ▲ or ▼ to select **Media Player** and press **OK**.



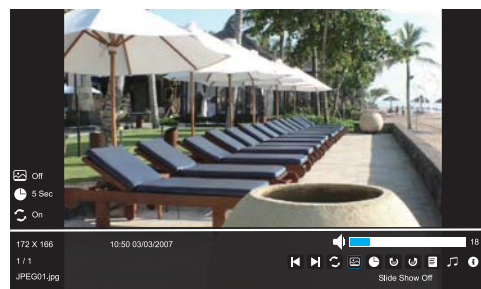
2. Press ◀ or ▶ to select **Photo** and press **OK** to choose a storage device.



3. Press ◀ or ▶ to select a storage device that you put photos on then press **OK** to enter the submenu.
4. Press ▲, ▼, ◀ or ▶ to select the folder you wish to view and press **OK** to enter.



5. Press ▲, ▼, ◀ or ▶ to select the desired photo and press **OK** to view.
6. Press **MENU** to change the settings when viewing a photo.




Press ◀ or ▶ to:

- [Slide Show Icon] : Slide Show Off/On
- [Previous Photo Icon] : Go to the previous photo
- [Next Photo Icon] : Go to the next photo
- [Repeat Icon] : Select repeat mode
- [Interval Icon] : Select the desired interval time
- [Clockwise Rotation Icon] : Clockwise rotation 90°
- [Counterclockwise Rotation Icon] : Counterclockwise rotation 90°
- [List Icon] : Show play list
- [Music Icon] : Set the background music
- [Info Icon] : Photo information
- [File Selector Icon] : File Selector

and press **OK** to confirm the setting.


Using Slide Show

This view allows you to watch a slide show of the photos. In this view mode, the only content that locates on the same directory shall be played.


1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select  and press **OK** to turn **On** or **Off**.

NOTE: If Repeat is On, slide show starts photo viewing from the first photo in the folder after reaching the final photo.


Repeat Settings for Slideshow

1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select  and press **OK** to turn **On** or **Off**.

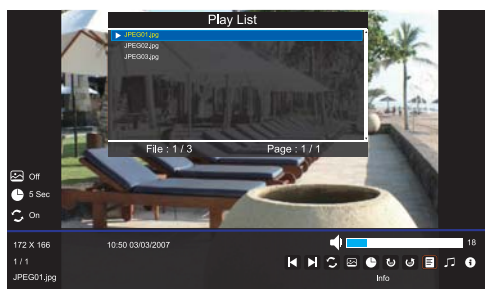
Set Interval Time

1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select  and press **OK** to select the desired interval time (3/5/10/15/30/60/90 Sec).

Using the Play List


1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select  and press **OK**.
3. Press ▲ or ▼ to select a photo and press **OK** to show the photo.

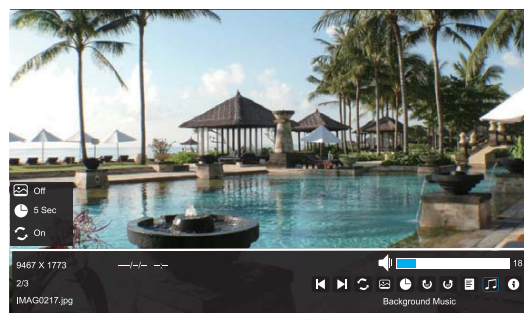
Press **RETURN** on the remote to close the list.




Background Music

Set the background music when viewing photo.

1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select  and press **OK**.

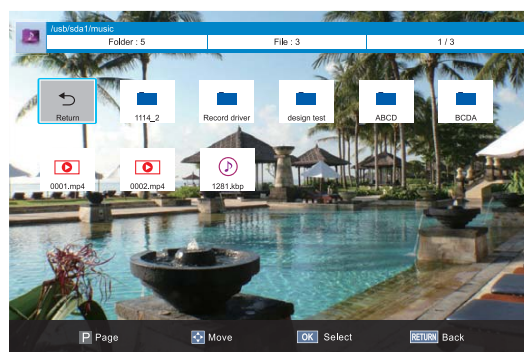


3. TV will automatically play the music files put on the same photo folder.
4. Press ◀ or ▶ to select  and press **OK**.



Press ▲, ▼, ◀, ▶ to select music and press **OK** to play music.

Press **RETURN** on the remote to collapse the list.




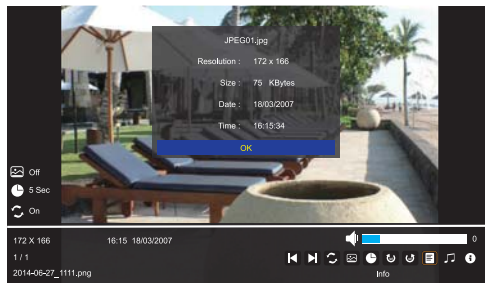
5. Press ◀ or ▶ to select  and press **OK** to select **Repeat None**, **Repeat One** or **Repeat Folder**.

Photo Info

Info displays the file status information (Resolution, Size, Date, etc.).

1. Press **MENU** to change the settings when viewing a photo.
2. Press ◀ or ▶ to select ⓘ and press **OK**.



3. The information will be removed by time-out (about 15 sec).

Enjoy Music through USB Port

The MP3 Player allows you to playback music files from a USB storage device.

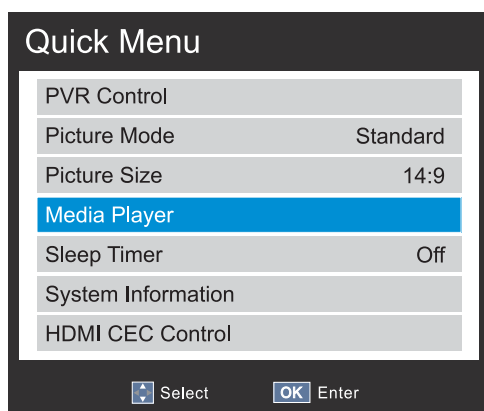
Media Player	Media Format	File Extension	Video codec (*1)	Audio codec	Note
Music	MP3	.mp3	-	MPEG-1/2 Layer-3	<ul style="list-style-type: none"> • Maximum number of files: 3000/folder • Maximum music size: depend on file system • Some files may not be played.
	MP4	.m4a	-	MPEG-2/4 LC-AAC	
	WAV	.wav	-	LPCM ADPCM MPEG-1/2 Layer-3	
	LPCM		-		

*1: MP4: GMC is not supported.

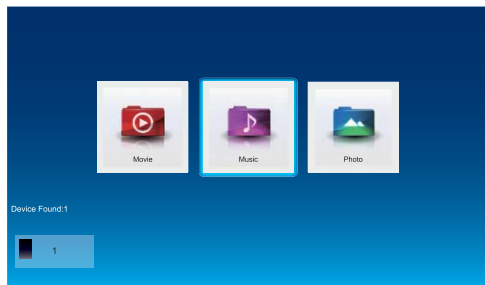
*2: The USB disc support format of FAT16 and FAT32

Play Music Files

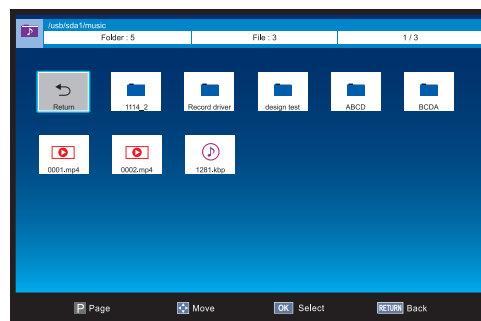
1. Insert a USB storage device and press **QUICK** on the remote.
Use ▲ or ▼ to select **Media Player** and press **OK**.



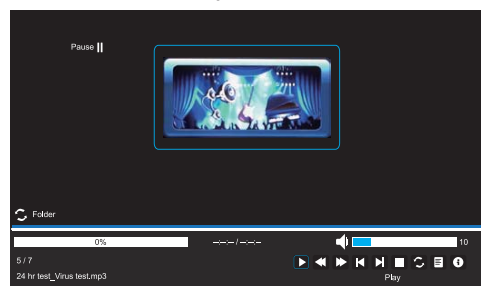
2. Press ◀ or ▶ to select **Music** and press **OK** to choose a storage device.



3. Press ◀ or ▶ to select a storage device that you put music files on then press **OK** to enter the submenu.
4. Press ▲, ▼, ◀ or ▶ to select the folder you wish to play and press **OK** to enter.





5. Press ▲, ▼, ◀ or ▶ to select the desired music and press **OK** to play.




When listening music, press ◀ or ▶ to:

- ▶ / ⏸ : Play or pause the selected music
- ◀ : Rewind the selected music
- ▶ : Fast forward the selected music
- ⏮ : Go to the previous music
- ⏭ : Go to the next music
- ⏹ : Stop play
- 🔁 : Select the desired repeat
 - Repeat None
 - Repeat One: Repeat the selected music once time.
 - Repeat Folder: Repeat all music files in the selected folder


-  : Show play list
-  : Music information

and press **OK** to confirm the setting.

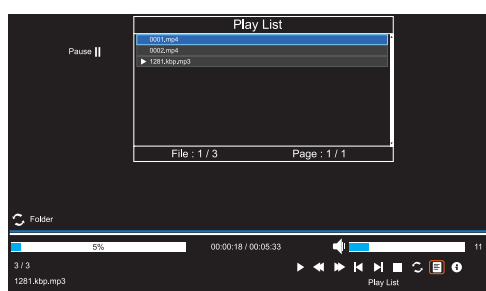
Repeat Settings

1. Press **◀** or **▶** to select .
2. Press **OK** to select **None**, **One** or **Folder**.

Using the Play List


1. Press **◀** or **▶** to select  and press **OK**.
2. Press **▲** or **▼** to select music and press **OK** to play music.

Press **EXIT** on the remote to close the list.



Music Info

Info display file status information, (Title, Album, Artist, Year, Bit Rate, etc).

1. Press **◀** or **▶** to select  and press **OK**.



2. The information will be removed by time-out (about 15 sec).

Enjoy Movie through USB Port

The Video Viewer allows you to playback video files from a USB storage device.

NOTE: USB 2.0 or above is recommended for best media performance.

Some files may not be played.

Media Player	Media Format	File Externsion	Video codec (*1)	Audio codec	Note
Movie	AVI	.avi	MPEG-2 MPEG-4 part2 H.264 (MPEG-4 AVC) Xvid	MPEG-1/2 Layer2 MPEG-1/2 Layer3 L-PCM ADPCM MPEG-2/4 LC-AAC MPEG-4 HE-AAC	Maximum viewable resolution. Motion - JPEG: 640 X 480 Other : 1920 x 1080 9600 x 6400 NOTE: <ul style="list-style-type: none"> Some files may not be played. Maximum number of files: 3000/folder Maximum video size: depend on file system
	MPEG-2 PS	.mpg .mpge .dat	MPEG-1 Video	MPEG-1/2 Layer3	
			MPEG-2 Video	MPEG-1/2 Layer2 Dolby Digital Plus(E-AC-3) L-PCM	
	MPEG-2 TS	.ts .trp .tp	MPEG-2 Video	MPEG-1/2 Layer2	
			H.264 (MPEG-4 AVC) VC-1(WMV9)	MPEG-1/2 Layer3 Dolby Digital Plus(E-AC-3) L-PCM MPEG-4 LC-AAC MPEG-4 HE-AAC	
	MPEG-2 VOB	.vob	MPEG-1 Video MPEG-2 Video	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital Plus(E-AC-3) L-PCM	
	MP4	.mp4 .m4v	H.264 (MPEG-4 AVC) MPEG-4 part2	MPEG-1/2 Layer3 MPEG-4 HE-AAC	
			H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC	
	Xvid	.xvid	Xvid	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital Plus(E-AC-3) PCM ADPCM	
	MKV	.mkv	MPEG-1 Video MPEG-2 Video MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital Plus(E-AC-3) L-PCM MPEG-2/4 LC-AAC MPEG-4 HE-AAC	

Media Player	Media Format	File Extension	Video codec (*1)	Audio codec	Note
Movie	Flash Video (FLV1)	.flv	Sorenson H.263 (FLV1) H.264 (MPEG-4 AVC)	MPEG-1/2 Layer3 MPEG-2/4 LC-AAC L-PCM ADPCM	Maximum viewable resolution. Motion - JPEG: 640 X 480 Other : 1920 x 1080 9600 x 6400 NOTE: • Some files may not be played. • Maximum number of files: 3000/folder • Maximum video size: depend on file system
	3GPP	.3gp	MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC	
	Motion JPEG	.avi .mp4 .mkv	JPEG	L-PCM ADPCM	

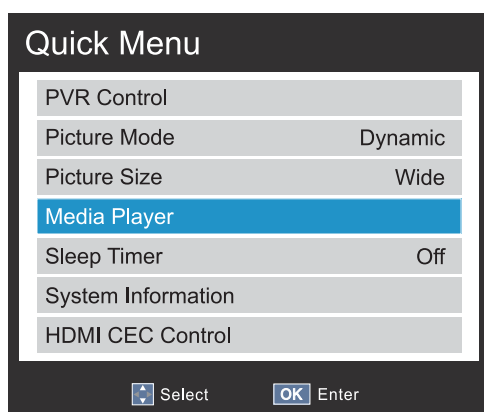
*1: MP4: GMC is not supported.

*2: The USB disc support format of FAT16 and FAT32

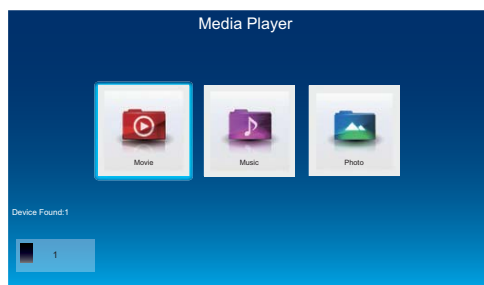
Play Video Files

1. Insert a USB storage device and press **QUICK** on the remote.

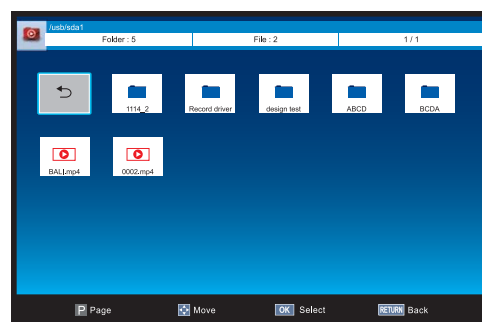
Use ▲ or ▼ to select **Media Player** and press **OK**.



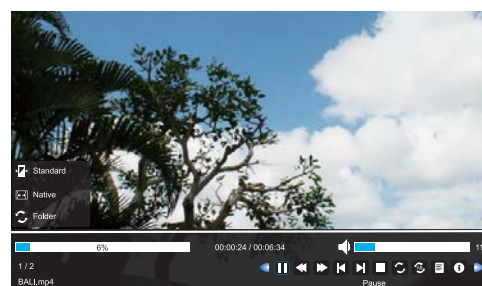
2. Press ◀ or ▶ to select **Movie** and press **OK** to enter the submenu.



3. Press ◀ or ▶ to select a storage device that you put video files on then press **OK** to enter the submenu.
4. Press ▲, ▼, ◀ or ▶ to select the folder you wish to view and press **OK** to enter.











5. Press ▲, ▼, ◀ or ▶ to select the desired video and press **OK** to play.
6. Press **MENU** to change the settings when viewing a video.




Press ◀ or ▶ to:

- ▶ / ⏸ : Play or pause the selected video
- ⏮ : Fast back the selected video
- ⏭ : Fast forward the selected video
- ⏮ : Go to the previous video
- ⏭ : Go to the next video
- ⏹ : Stop play
- 🔁 : Select the desired repeat
 - Repeat None
 - Repeat One: Repeat the selected video once time.
 - Repeat Folder: Repeat all video files in the


selected folder

-  : Repeat from A to B
 - Set A: A-Set
Repeat and Start
 - Set B: B-Set
Repeat and repeat from A to B
-  : Show play list
-  : Video information
-  : Slow forward the selected video
-  : Step forward the selected video
-  : Adjust picture size
-  : Adjust picture mode
-  : Allows you to input a search time and press **OK** to confirm the setting.


Repeat Settings

1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK** to select **None**, **One** or **Folder**.

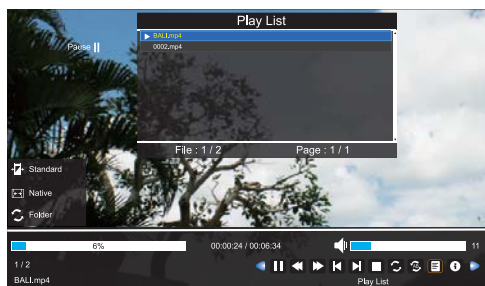
Repeat A-B

1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK** to select **Set A**, **Set B** or **None**.

Using the Play List


1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK**.
3. Press **▲** or **▼** to select a video and press **OK** to play the video.

Press **RETURN** on the remote to close the list.



Video Info

Info displays file status information (content number, video title, audio track, subtitle, program, size, etc.).


1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK**.



3. The information will be removed by time-out (about 15 sec) or press **RETURN** button to exit.


Slow Forward

The feature changes forward speeds.

1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK** to select **SF2X**, **SF4X**, **SF8X**, **SF16X**, **SF32X** or **Play**.


Step Forward

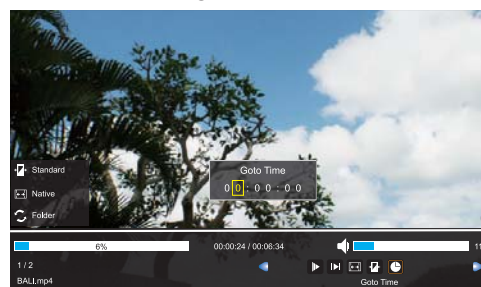
The feature allows you to view a video one frame at a time.

1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK** to play step by step.

Goto Time

The feature allows you to view a selected time during the video.

1. Press **MENU** to change the settings when viewing a video.
2. Press **◀** or **▶** to select  and press **OK**.
3. Use the number key pad on the remote to enter time. Press **OK** to go to the input time.



HDMI CEC Menus

By activating the Enable HDMI CEC Control feature in the **HDMI CEC Control Setup** menu, individual **HDMI-LINK** features can then be activated.

One Touch Play

The function of **HDMI CEC** will automatically power on the television that was in standby mode and switch the television's input source to the port connected with the audio/video equipment by powering-on or playing from the audio/video equipment.

NOTE: This feature is dependent on the connected equipment and television setting.

System Standby

This feature automatically switches the connected equipment into standby when the television goes into standby and conversely for the television to switch into standby when connected equipment goes into standby. It is selected in the **HDMI CEC Control Setup** menu.

NOTE: This feature is dependent on the connected equipment and television setting.

System Audio Control

Using the Speaker Preference feature allows the television's remote control to adjust the volume or mute the sound of the speakers connected to the television via an AV amplifier.

Ensure that the connected AV amplifier and **HDMI CEC** equipment are selected in the input source selection and that the **Initial Speaker Setting** is set to **Amplifier** in the **HDMI CEC Control Setup** menu.

NOTE: When the AV Amplifier is switched on, its input source changed or the volume adjusted, the sound will be output from the AV Amplifier's speakers even if TV speakers has been selected. Turn the television off then on again to output the sound from the TV's speakers.

The full function may not work and is dependent on the amplifier being used.

HDMI CEC Control Setup

This feature uses CEC (Consumer Electronics Control) technology, and allows the control of Toshiba **HDMI CEC** compatible equipment from the television's remote control.




NOTE: Not all Toshiba products currently support **HDMI CEC**.

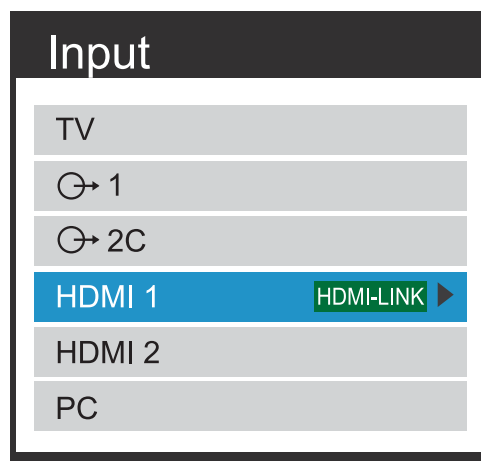
Equipment Control





The **HDMI CEC** mode on the television's remote control allows the control of connected **HDMI CEC** equipment being watched. To control the **HDMI CEC** input source, first select the equipment with **HDMI CEC** input source selection, then switch the mode on the remote control to **HDMI CEC** and press any buttons.

The available functions are dependent on the equipment connected. Not all the remote control keys may be available. Please refer to the operation manual for each piece of equipment connected.

Select HDMI CEC Device

1. Press . A list appears on screen showing modes and all stored external equipment.
2. The **HDMI-CEC** icon appears automatically after detected with **HDMI CEC** compatible equipment. Press  or  to highlight the input source shown with the **HDMI-CEC** icon.



3. Press  and the device selection menu appears showing all connected **HDMI CEC** equipment.
4. Press  or  to highlight the desired **HDMI CEC** equipment, and then press  to select.

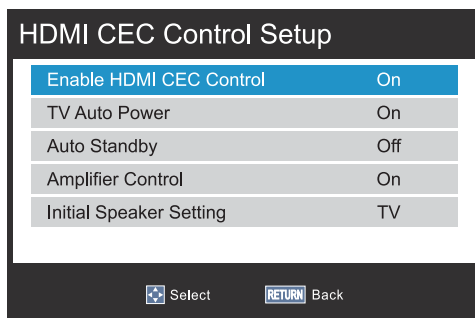
Enable HDMI-LINK

When the **Enable HDMI CEC Control** is set to On, it allows the other functions to be enabled.

1. Press **MENU**. Press ◀ or ▶ to select **Setup**.



2. Press ▲ or ▼ to select **HDMI CEC Control Setup**, and press Ⓞ to enter the submenu.
3. Press ▲ or ▼ to select **Enable HDMI CEC Control**, and press ◀ or ▶ to select **On** or **Off**.



TV Auto Power

The **TV Auto Power** setting allows the television to be automatically switched **On** if user pressed Play key on the **HDMI CEC** device.

1. In the **HDMI CEC Control Setup** menu, press ▲ or ▼ to select **TV Auto Power**.
2. Press ◀ or ▶ to select **On** or **Off**.

Auto Standby

When the **Auto Standby** is enabled, switching off the television will automatically switch off all connected **HDMI CEC** equipment.

1. In the **HDMI CEC Control Setup** menu, press ▲ or ▼ to select **Auto Standby**.
2. Press ◀ or ▶ to select **On** or **Off**.

Amplifier Control

When **Amplifier Control** is set to On, it allows the **Initial Speaker Setting** feature to become available.

1. In the **HDMI CEC Control Setup** menu, press ▲ or ▼ to select **Amplifier Control**.
2. Press ◀ or ▶ to select **On** or **Off**.

Initial Speaker Setting

This feature allows the audio output preference to be set to the TV speakers or Amplifier speakers. The Amplifier option lets the television's remote control adjust or mute the volume of the audio.

1. In the **HDMI CEC Control Setup** menu, press ▲ or ▼ to select **Initial Speaker Setting** when **Amplifier Control** is **On**.
2. Press ◀ or ▶ to select **TV** or **Amplifier**.

NOTE: This function is only available when the TV is connected to audio receivers that support CEC function.

HDMI CEC Playback Device Control

This is a new feature that uses CEC technology and allows you to control HDMI CEC compatible devices from the TV remote control via HDMI connection.

When there are two or more HDMI CEC devices connected to the television, the device selection menu appears. Highlight the desired device, and then press **OK** to select.

Remote Control



Pass-Through Control Panel



NOTE:

- Press **▲** or **▼** to select **HDMI CEC Control** in the **Quick** menu. The **Pass-Through Control Panel** appears.
- Some functions are only available when the **Pass-Through Control Panel** is displayed on the screen. Please refer to the following procedure.
- Please refer to the **Remote Control** image and the following table for the key definition of the **Pass-Through Control Panel**.
- **MENU** and **RETURN** functions are unavailable when the **Pass-Through Control Panel** is on.

No	Item	Description
When opening the Pass-Through Control Panel :		
1	GUIDE	Turn off the desired HDMI CEC device.
2	EXIT	Close the Pass-Through Control Panel .
3	▲	Pause.
	▼	Stop.
	◀	Rewind.
	▶	Forward.
	OK	Play.
4	MENU	Skip Reverse.
5	RETURN	Skip Forward.
6	ROOT	Root key.
7	CONTENTS	Contents key.
In contents menu:		
3	▲, ▼, ◀, ▶	Navigate contents menu.
	OK	Enter contents menu, etc.

NOTE: These functions depend on the devices connected.

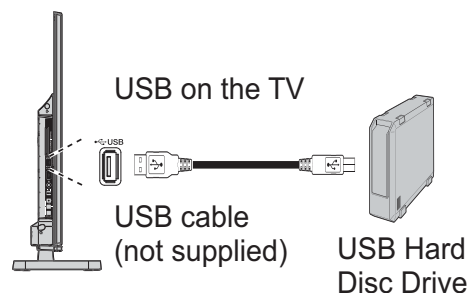
USB HDD Record Function

This function can be used to record and play digital broadcast programmes (function is dependant on country selection). Read the precautions below before recording or viewing programmes using the USB HDD record function.

NOTE:

- In order to use this function, a USB HDD needs to be connected to the TV. Do not use USB Hub.
- After recording operation, time may take to a recording start.
- Recorded programmes saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- You cannot watch other channel while recording one channel.
- If the recording time to the USB HDD is too short, no data may be saved.
- You cannot record video input signals on the USB HDD.
- Not all types of broadcast may be recordable.
- After programming the TV to record digital broadcasting, do not disconnect the power plug before recording starts.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation would be paid.
- If there is a power failure or the power plug is disconnected during programmed recording, recording will stop and will not resume when the power returns or the plug is reconnected.
- Do not disconnect the power plug when the indicator LED is lit.
- Any changes implemented by the broadcasting station may affect programme scheduling.
- Scheduling of multiple consecutive programmes may result in the beginning of each programme not being recorded.
- Accurate start / finish time for recording is reliant on broadcasters maintaining correct time stamp if this not the case the recording will fail.
- Some broadcasters can control whether a program can be recorded or how long you may be able to view it for after recording. The on screen message "Retention limit expired" means that the time limit for viewing the program has lapsed.
- Programmed recording cannot take place if the power plug is not connected.
- Disconnecting the power plug during recording may result in failure to save the recorded programme.
- Locked channels cannot be recorded, even if you might be watching a programme on a locked channel.

- USB HDD recording feature is not available in all countries.
- When the USB HDD is formatted, all the data stored on the HDD will be erased.



When you connect a USB HDD to the USB port on the TV, a prompt will appear.

1. Press ◀ or ▶ to select **No** and press **OK**.

NOTE: Not guaranteed to work with all USB HDD.

To record DTV programmes

To record the programme currently being viewed.

1. Press **QUICK** button to enter **Quick Menu**.
2. Press ▲ or ▼ to select **PVR Control** then press **OK**.
1. Use ▲ or ▼ to select **Recording Start** then press **OK**.

To stop recording:

1. Press the **EXIT** button.
A confirmation window "Do you want to stop recording?" will appear.
2. Press ◀ or ▶ to select **Yes** and press **OK**.
Recording will stop.

How to set recordings via the Programme Guide

Programmed recording can be scheduled easily using the Programme Guide or by specifying the date and time.

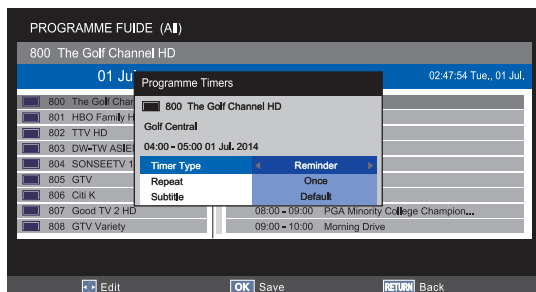
PLEASE NOTE

When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. Other channels will not be available during the timed programme unless the programme timer is cancelled.

It will only be possible to create or edit programme timers for the currently tuned DTV input.

Using the Programme Guide to set future recordings.

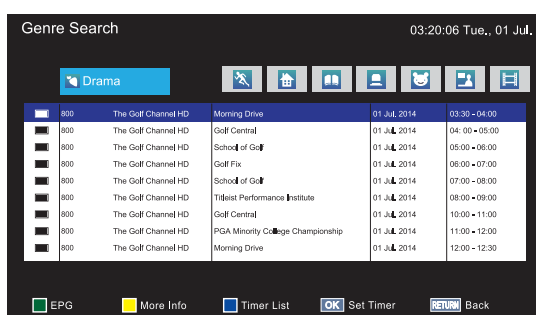
1. Press **GUIDE** on the remote control to display the Electronic Programme Guide (EPG).
2. Press **▲**, **▼**, **◀**, **▶** to highlight the programme you want to record and press **OK**.
The **Timer List** screen will appear.



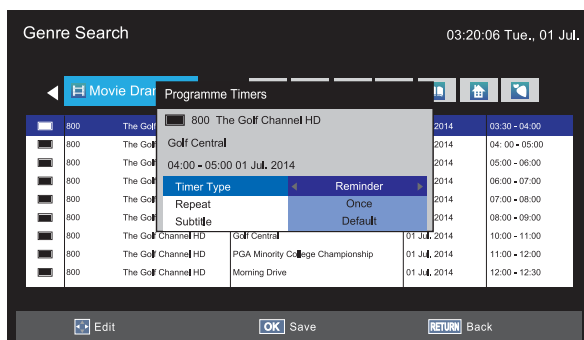
3. Press **▲**, **▼**, **◀**, **▶** to select **Timer Type**, **Repeat** or **Subtitle** and press **OK**.

To search for and record a programme using Genre Search:

1. Press the **■** (green) button on the remote control to access the Genre Search screen.



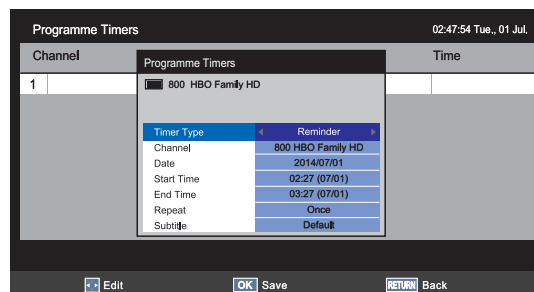
2. Press **◀** or **▶** to select the genre. Programmes listed will change for the new genre. Press **▲** or **▼** to select the programme for which you want to schedule recording.
3. Press **OK**. The Edit Timer screen will appear. Press **▲** or **▼** to select **Timer Type**.



4. Press **◀** or **▶** to select **Recording** or **Reminder** and press **OK**.
5. Press **▲** or **▼** to highlight adjust **Repeat** and **Subtitle mode** and press **OK**.

To programme the timer:

1. Press the **■** (blue) button on the remote control.
2. Select the unprogrammed column (blank column) and press **OK**.
The **Programme Timers** screen will appear.
Press **▲** or **▼** to select **Timer Type**.

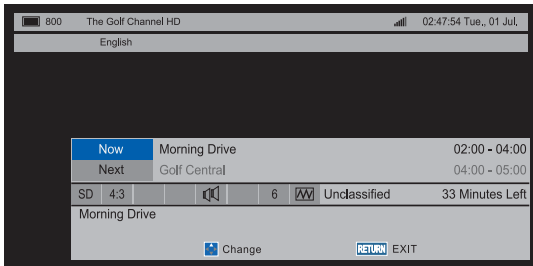


3. Press **◀** or **▶** to select **Recording** or **Reminder**.
4. Press **▲** or **▼** to go through the list adding the details of the programme by using the number buttons and **◀** or **▶** to make selections.
 - **Channel**
Select the channel you wish to record.
 - **Date**
Select the date that you wish recording to start.
 - **Start Time**
Select the time to start recording.
 - **End Time**
Select the time to end recording.
 - **Repeat**
Select **Once**, **Every Day** or **Weekly**.

Once	The selected content is recorded once.
Every Day	The same time slot on the same channel is recorded every day on and after the selected day.
Weekly	The same time slot on the same channel on the same day of the week is recorded on and after the selected day.

To schedule a programme using the information screen:

1. Press **i+** the information screen will appear giving details of the channel and programme currently being viewed.



2. Press **▲** or **▼** to select **Next** or **Now** and press **OK**. The **Channel List** menu will appear.

To check, edit or delete scheduling information

You can check, edit or delete scheduling information.

1. Press **■** (blue) button in Programme Guide page.
Programme Timers screen will appear.
Timer List
 - Depending on the transmitter information, the programme broadcast time or other information may not be correctly displayed in the recording list.
 - The programme does not appear in the recording list immediately at the start of recording, but appears a few minutes after recording starts.
 - If the channel settings are changed, the digital channel number, or other information may not appear correctly in the recording list.
 - As the displayed programme time is calculated from the actual recording information, it may not match the recording time on the USB HDD.

To check a schedule:

1. Press **▲** or **▼** on the **Programme Timers** screen to check the schedule.

To edit a schedule:

1. Press **▲** or **▼** on the **Programme Timers** screen to select the title whose schedule you want to edit and press **OK**.
The **Programme Timers** screen will appear. Change the settings as required, following the same procedure as for setting the schedule.

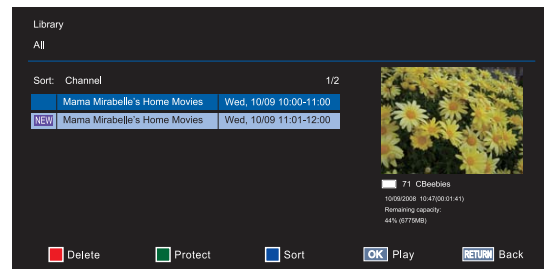
To delete a schedule:

1. Press **▲** or **▼** on the **Programme Timers** screen to select the title whose schedule you want to delete.
2. Press the **■** (red) button.

To view a recorded programme

To view the recorded Library screen and select a title from the recorded programme list.

1. Press **Play List** on **Quick Menu**. The **Library** screen will appear.



2. Press **▲** or **▼** to select the title you want to view.
A preview of the content selected can be seen on the preview screen.
To change the order in which the titles are listed, press the **■** (blue) button.
3. Press **OK**.
Viewing starts.
When the title currently being recorded is selected and **OK** is pressed, playback will start from the beginning of the programme currently being recorded.

Operations during viewing

The following operations can be performed using the remote control buttons.

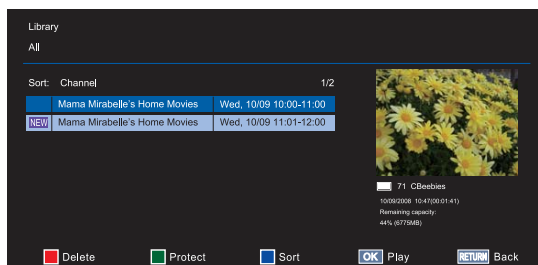
▶	To PLAY	◀	To REWIND
■	To STOP	▶▶	To FAST FORWARD
 	To PAUSE/STEP	▶ 	To SKIP-FORWARD
◀ 	To SKIP-BACK		

Operations from the Library screen

As well as viewing the list of recorded titles on the Library screen, you can protect or delete titles and register titles to Personal Mode.

To display the Library screen:

1. Press Play List on **Quick Menu** and highlight **Play List** and press **OK**. The **Library** screen will appear.



To protect or unprotect a recorded programme:

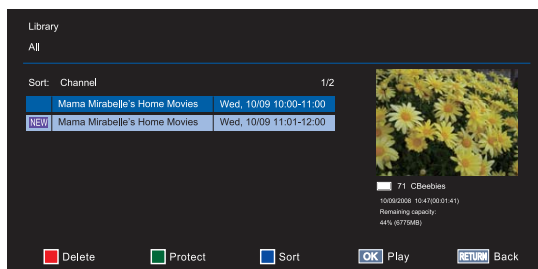
Protecting a programme prevents it from being accidentally deleted.

Select the title of the programme you want to protect and press the **Protect** (green) button. **Lock** icon appears next to the title and the programme is protected.

When a title with **Lock** icon is selected and the **Protect** (green) button is pressed, **Lock** icon disappears and the programme is unprotected.

To delete a recorded programme:

1. Press **▲** or **▼** to select the title you want to delete and press **OK**.
2. Press the **Delete** (red) button.

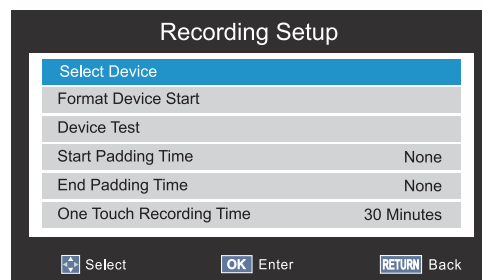


Recording Setup

You can set your preferences for recording.

To select USB HDD and Partition for Recording:

1. Press **▲** or **▼** of **Setup** menu page to select **Recording Setup** then press **OK** to enter the submenu.
2. Press **▲** or **▼** to select **Select Device** and press **OK**. USB HDD and Partition list will be appear. If USB HDD is partitioned by PC, several partitions will be displayed.



3. Select USB HDD and Partition you want to recording.

To set the recording time for One Touch Recording:

1. Press **▲** or **▼** of **Setup** menu page to select **Recording Setup** then press **OK** to enter the submenu.
2. Press **▲** or **▼** to select **One Touch Recording Time** and press **◀** or **▶** to select the recording time.

You can set the **Programme End Time** in 30-minute increments in the range of 30 minutes to 360 minutes.

To set the padding time for programmed recording start time and end time:

1. In the **Recording Setup** screen, press **▲** or **▼** to select **Start Padding Time**.
2. Press **◀** or **▶** to select a time.
You can select from **None, 1 Minute, 3 Minutes, 5 Minutes, 10 Minutes, 15 Minutes, 30 Minutes, and 45 Minutes**.
Recording will start at the selected number of minutes prior to the recording start time.
3. Press **▲** or **▼** to select **End Padding Time**.
4. Press **◀** or **▶** to select a time.

You can select from **None, 1 Minute, 3 Minutes, 5 Minutes, 10 Minutes, 15 Minutes, 30 Minutes, and 45 Minutes**

Recording will end at the recording end time plus the selected number of minutes.

To format a USB HDD:

- 1.** In the **Recording Setup** screen, press ▲ or ▼ to select **Format Device** and press (OK).
- 2.** Press ◀ or ▶ to select **Yes** in the confirmation window that will appear and press (OK).
Formatting will start.
Wait until formatting ends.

NOTE:

- If the USB HDD is separated several partitions by PC and multiple Partition appear on the Device List screen, press ▲ or ▼ to select the Partition you want to format.
- When the USB HDD (or Partition) is formatted, all the data stored on the USB HDD (or Partition) will be deleted.

Frequently Asked Questions

Q Why is there no sound or picture?


A Check that the television is on and that all connections are made properly.

Q There is a picture, but why is there little or no colour?

A The colour is factory set to **Auto** to automatically display the best colour system.

A When using an **external** source, if there is little or no colour, improvements may sometimes be achieved.

Q Why doesn't the video/DVD being played show on-screen?




A Make sure the Media player or DVD player is connected to the television, then select the correct input by pressing .

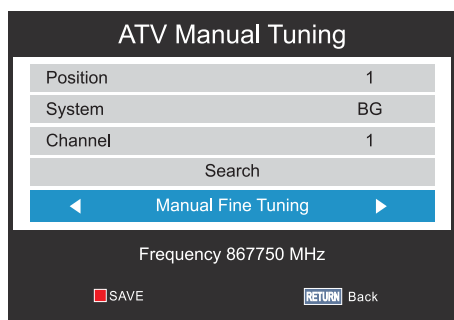
Q Why is there a good picture but no sound?




A Check all cable connections and that the volume has not been turned down or that the sound has not been muted.

Q What else can cause a poor picture?

A Interference or a weak signal. Try a different television station. Manual fine tuning may help:

1. Select the **ATV Manual Tuning** in the **Installation** menu.
Highlight the station and press , then press  or  to select **Manual Fine Tuning**.



2. Using  or  to adjust to get the best picture and sound. Press  and then **RETURN**.


Q Why doesn't the remote control work?

A Check that the batteries aren't exhausted or inserted incorrectly.

Q Why are there problems with text?

A Good performance of text depends on a strong broadcast signal. If the text is unreadable or garbled, check the aerial, satellite or cable connection. Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

Q Why are the four coloured text numbers visible but no text (Analogue Only)?

A Text has been selected while viewing an external source. No text will appear on-screen or a box may appear stating no information is available. Select a broadcasting channel and press  to access.

Q What can be done if the user-defined password has been forgotten?

A Use the universal password 0000, then change to a new number of your choice.

Q What don't the devices connected via HDMI operate properly?

A Make sure to use cables with the HDMI logo (**HDMI**[®]). Some early HDMI equipment may not work properly with the latest HDMI TV products, due to adoption of new standards.

Q Why is the Media Player/DVD picture in black and white?

A Check the correct input has been chosen: S-VIDEO or AV.

Q Why did TV turn off by itself?

A After roughly 15 minutes without any input video signal at TV mode, the TV will turn off to reduce power.

Specifications and Accessories

- This television complies with the specification listed below.

Receiving systems

DVB-T Broadcast systems/ channels		Broadcast systems/channels	
UK	UHF 21-68	PAL-I	UHF UK21-UK69
France	VHF 05-10	PAL-B/G	UHF E21-E69
	(VHF 01-05)		VHF E2-E12, S1-S41
Germany	UHF 21-69	SECAM-L	UHF F21-F69
	VHF 05-12		VHF F1-F10, B-Q
Austria	UHF 21-69	SECAM-D/K	UHF R21-R69
	VHF 05-12		VHF R1-R12
Switzerland	UHF 21-69		
	VHF 05-12		
Italian	UHF 21-69		
	VHF 05-12 (D,E,F,G,H,H1,H2)		
Spain	UHF 21-69		
Netherlands	UHF 21-69		
	VHF 05-12		
Greece	UHF 21-69		
	VHF 05-12		

DVB-T/C/T2 Broadcast systems

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

⊖ 1	Input/Output	21-pin SCART	Auto, Mixed, RGB, Composite, S-Video / TV Out
⊖ 2C	Input	RCA jacks	(Composit/Component)
RGB/PC	Input	D-sub	RGB
HDMI 1/2	Input	HDMI®	
Audio			
Digital Audio	Output(S/PDIF)	Optical	
USB Port		Interface version: USB 2.0 USB Class: USB Flash Drive File system: FAT32	

Stereo A2, Nicam
2 Carrier System

Visible Screen Size (approx.)	40	102 cm
	50	127 cm
Screen Resolution (H x V pixels)	40	1920 x 1080
	50	1920 x 1080

Display 16:9

Sound Output Main: 7W+7W
(at 10 % distortion)

Power consumption 40 72 W
(approx.) 50 89 W

Standby power consumption (approx.) 0.40 W

Energy Efficiency Class 40 A+
50 A++

On-mode power consumption¹ (approx.) 40 36.7 W
50 45.0 W

Annual power consumption² (approx.) 40 53.6 kWh/y
50 65.7 kWh/y

¹ Tested in accordance with IEC 62087-BD in default settings.

² Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.

Dimensions 40 56.7cm (H) 90.4cm (W) 19.4cm (D)
(approx.) 50 70.1cm (H) 112.2cm (W) 21.6cm (D)
(Height / Deep dimension includes foot stand)

Weight **TV with stand** 40 11.0 kg
(approx.) 50 16.5 kg

Gross weight 40 15.0 kg
50 21.5 kg



TV without stand 40 10.0 kg
50 16.0 kg

Operating Conditions Temperature: 5°C - 35°C (41°F - 94°F)
Humidity: 20% - 80% (non-condensing)

Supplied accessories Remote control CT-90326
2 batteries (AAA, IEC R03 1.5V)
40" Screw (M4*12 x 4) & (M4*8 x 4)
50" Screw (M4*10 x 4) & (M4*8 x 4)

Specification is subject to change without notice.

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REACH information

The European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007, with phased deadlines to 2018. Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of substances included on the candidate list according to REACH regulation. Please consult the following website www.toshiba.eu/reach for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight.

Cleaning the screen and cabinet...

Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Disposal...

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please visit our website (www.toshiba.eu/recycling) or contact your local city office or the shop where you purchased the product.

**Disposal of batteries and/or accumulators**

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will

appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please visit our website (www.toshiba.eu/recycling) or contact your local city office or the shop where you purchased the product.

**EU Conformity Statement**

This product is carrying the CE-Mark in accordance with the related European Directives.

Responsible for CE-Marking is TOSHIBA, 23 Davy Road, Plymouth Devon, PL6 8BY, England

This product is labeled with CE Mark in accordance with the related European Directives, notably Low Voltage Directive 2006/95/EC, Electromagnetic Compatibility Directive 2004/108/EC and RoHS Directive 2011/65/EU.

Furthermore the product complies with the Ecodesign Directive 2005/32/EC (EuP) and 2009/125/EC (ErP) and its related implementing measures.

If this product has an integrated Wireless LAN feature, the Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC is also applicable.

Specification is subject to change without notice.

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TOSHIBA

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